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ABSTRACT

The Alabama Commission on Higher Education spent 3 years compiling and analyzing information on the consumption and costs of energy and other kinds of utilities by Alabama public colleges and universities. Usage and cost information is taken from each institution's quarterly utilities report. It is noted that interinstitutional comparisons can be misleading, but that overall energy use dropped from 1984-85 to 1985-86 for the first time in 5 years. Graphs on energy usage at all of the participating institutions are provided. The utilities usage and cost summary section offers statistical tables on senior institutions and two-year institutions (junior colleges, technical colleges, and community colleges). Data are provided on the year, gross area, heating fuel/steam, electrical energy, total energy, cost of utilities, heating (degree-days per year), and cooling (degree-days per year). The appendix includes a copy of the quarterly utilities report form and a preliminary report called "Study of Relationship between Energy Usage and Heating Degree-Days and Cooling Degree-Days." A brief description of the Alabama Commission on Higher Education concludes the report. (SM)

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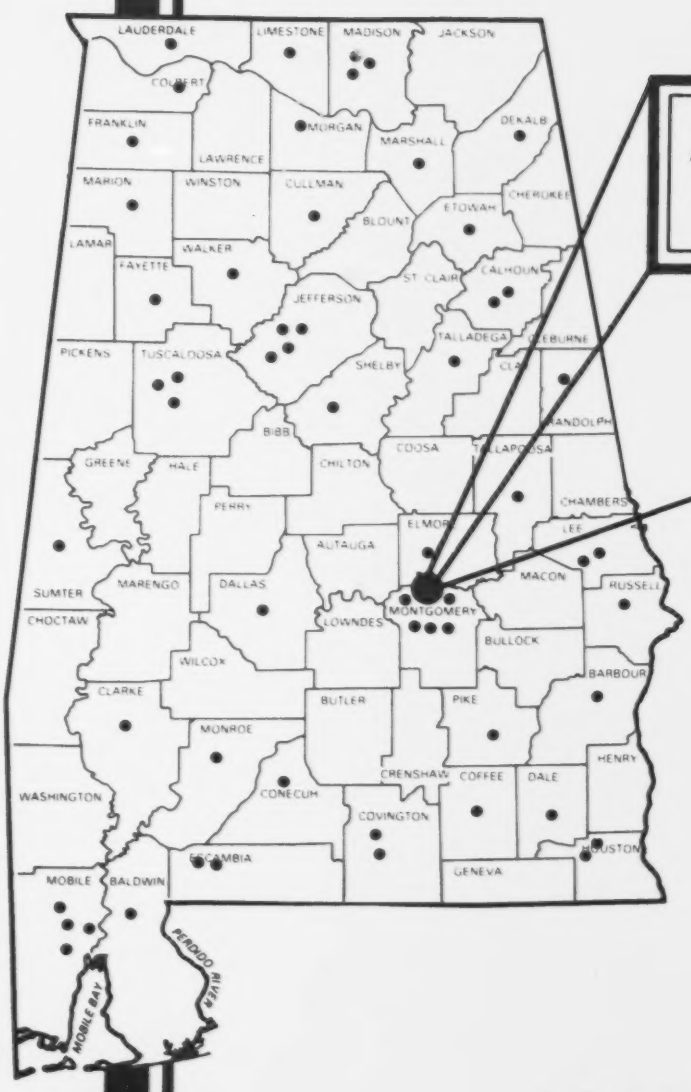
Report on Utilities Usage and Cost



Alabama Commission on Higher Education

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1981-82 to 1985-86

HE 021 324

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REPORT ON
UTILITIES USAGE AND COST
1981-82 TO 1985-86

DECEMBER, 1987

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UTILITIES USAGE AND COST

Alabama Public Higher Education

INTRODUCTION

The Alabama Commission on Higher Education, as part of its responsibility to analyze and evaluate the needs of higher education and develop plans for postsecondary education, has analyzed the consumption and cost of energy and other types of utilities by the campuses. For three years we distributed an informal compilation and analysis of data to each institution. Last year we prepared and published a more complete report.

Energy consumption by the Alabama public colleges and universities showed a significant reduction, in Btu per gross square foot of building floor area, in 1986. We hope that this was, in part, the result of our dissemination of energy use data to the administrators of the campuses. We also hope that continued effort by the college and university administrators will produce further reduction in the consumption of this costly resource.

SOURCE OF DATA

Usage and cost data for this report are taken from the Quarterly Utilities Reports prepared by each institution. (See Appendix A for the format and the instructions for this report.) In some instances the staff has modified data, with the concurrence of the submitting institutions, to achieve internal consistency. Building floor areas have been taken from the Building Inventory report prepared biennially by each institution, or in the absence of a current Building Inventory report, from the latest Space Data Report available.

METHOD OF ANALYSIS

The following steps were taken in producing the summaries shown in this report:

(1) Heat values, in millions of British thermal units (MMBtu), were calculated for reported fuel and steam consumption, for each year reported, for each of the principal classes of building space (Education and General, Professional Health, Hospitals, and Auxiliary and other

space), using typical unit values for each heat source:

Natural Gas	1,030 Btu/Cubic Foot
Fuel Oil	138,690 Btu/Gallon
Coal	12,250 Btu/Pound
Propane	21,690 Btu/Pound
Wood	7,000 Btu/Pound
Steam	1,390 Btu/Pound

(The above values correspond to those used by the Department of Energy for comparisons.)

(2) Electrical energy consumption, in kilowatt hours, was compiled for each class of building space. Kilowatt hour values were converted to Btu values, at the rate of 3,414 Btu/kWh.

(3) Energy values per gross square foot of building floor area were calculated, for fuels and steam, for electrical energy, and for total energy input.

(4) Total purchased fuel and utilities costs, including water, sewage disposal, and solid waste disposal, were determined and average fuel and utilities costs per gross square foot were calculated.

(5) In order to insure that gross errors in data were detected, costs per MMBtu and per kWh were calculated for each institution and each reporting year. (These values are not shown in the summaries.)

(6) Heating degree-days and cooling degree-days recorded at the National Oceanic and Atmospheric Administration (NOAA) climatic data center nearest each campus are shown for each reporting year. The ACHE staff initiated a study of the relationships between energy usage and heating/cooling degree-days. The preliminary report of this study is incorporated in this report as Appendix B. When time permits analyses will be made for individual institutions and shared with the institutions.

(7) Graphs have been prepared for each senior institution and each class of two-year college showing total energy consumption per gross square foot by year, to display more clearly the trends in energy conservation reflected by the reported data.

CONCLUSIONS

The comparison of one institution's energy usage per square foot with that of another can be misleading because of differences in building occupancies and differences in structure and mechanical systems. We have, therefore, been

more concerned with changes in energy usage per square foot from year to year, as an indicator of the institutions' energy conservation and, over time, of the changing characteristics, with regard to energy efficiency, of campus facilities. We are concerned also with the total cost of utilities (especially energy) in comparison with other classes of expenditure, because this will determine the extent to which energy and utilities conservation merit attention in comparison to other purchased commodities.

Overall, energy use by higher education dropped from 1984-85 to 1985-86, for the first time in five years. Fuel and steam consumption dropped, while electrical energy consumption increased. Energy use per gross square foot of building floor area dropped by 7.5 percent.

Total energy consumption per gross square foot by the senior institutions was reduced in 1985-86 by 8.8% to slightly more than the 1981-82 level, despite little change from 1984-85 heating and cooling degree-day totals. The two-year colleges show a reduction of 3.2% from 1984-85. Unfortunately, the reductions are in heating fuel and steam energy, rather than electrical energy, which is nearly 10 times as costly.

The professional health facilities (except UAH) and hospitals showed increases in energy consumption per gross square foot from 1984-85 to 1985-86. Energy consumption by the professional health facilities is nearly twice, and by the hospitals nearly three times, the overall average for senior institutions.

The following senior institutions showed reductions in energy consumption per gross square foot:

	84/85 to 85/86	81/82 to 85/86
Alabama A&M University	69%*	68%*
Alabama State University	9%	7%
Athens State College	2%	
Auburn University	10%	
Jacksonville State University		8%
Livingston University	2%	
Troy State University (Main)	19%	21%
Troy State - Montgomery	30%*	
Troy State - Phenix City	42%*	
University of Alabama	1%	4%
University of AL in Huntsville	8%	10%
University of Montevallo	11%	12%
University of North Alabama	1%	1%
University of South Alabama	15%	11%

*Reported major changes in gross square feet cast some doubt on the accuracy of earlier data.

The two-year colleges show the following reductions in total energy consumption per gross square foot:

Community Colleges	84/85 to 85/86	81/82 to 85/86
Calhoun	3%	5%
Gadsden	4%	9%
Lawson		18%*
Wallace-Selma	14%	3%
Junior Colleges		
Alexander City	11%	
Bishop	9%	62%**
Brewer	8%	5%
Chattachoochee Valley	14%	22%
Jefferson Davis	8%	17%
Enterprise	4%	32%
Patrick Henry	19%	16%
Jefferson	17%	12%
Northeast	19%	37%
Snead	12%	20%
Southern Union	10%	7%
L. B. Wallace	11%	

*1982-83 to 1985-86

**Extreme range of fuel values reported casts doubt on accuracy of early data.

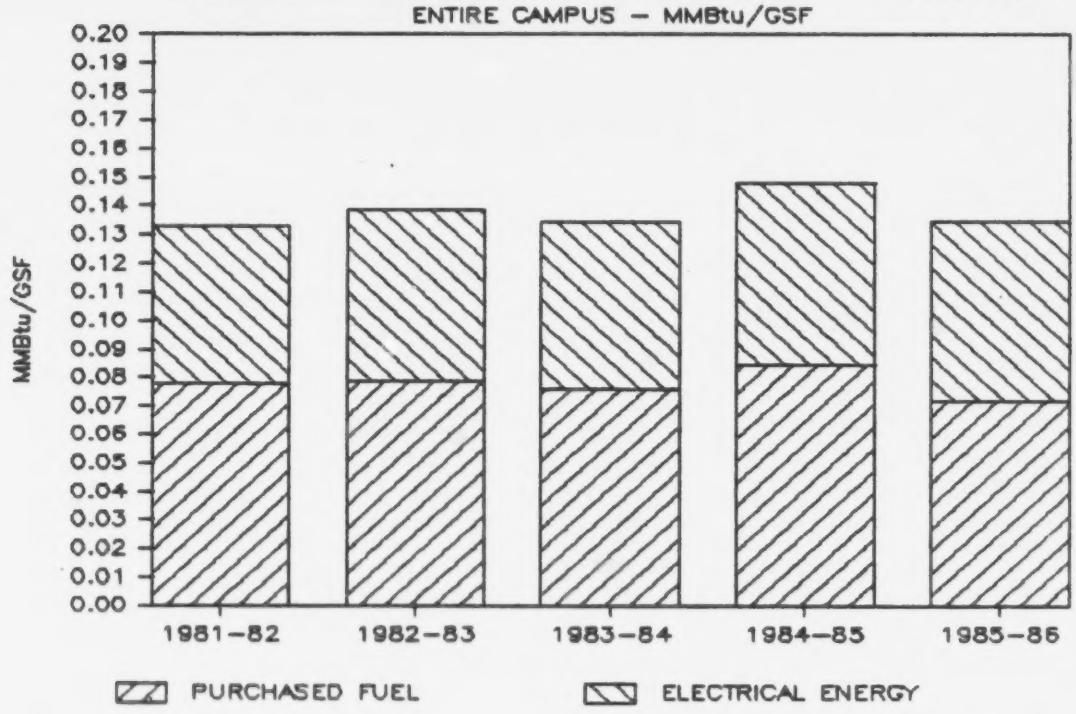
Technical Colleges		
AL. Avia. & Tech	2%	23%
Ayers	5%	14%
Bessemer		8%
Carver	9%	19%
Drake	1%	
Fredd	5%	7%*
Hobson	2%	
MacArthur	8%	
Muscle Shoals	9%	25%
Northwest	8%	
Nunnelley	11%	30%
Opelika		6%
Patterson	6%	25%
Reid	30%	4%
Sparks	6%	10%
Trenholm	8%	20%
Walker	14%	

*1982-83 to 1985-86

GRAPHS

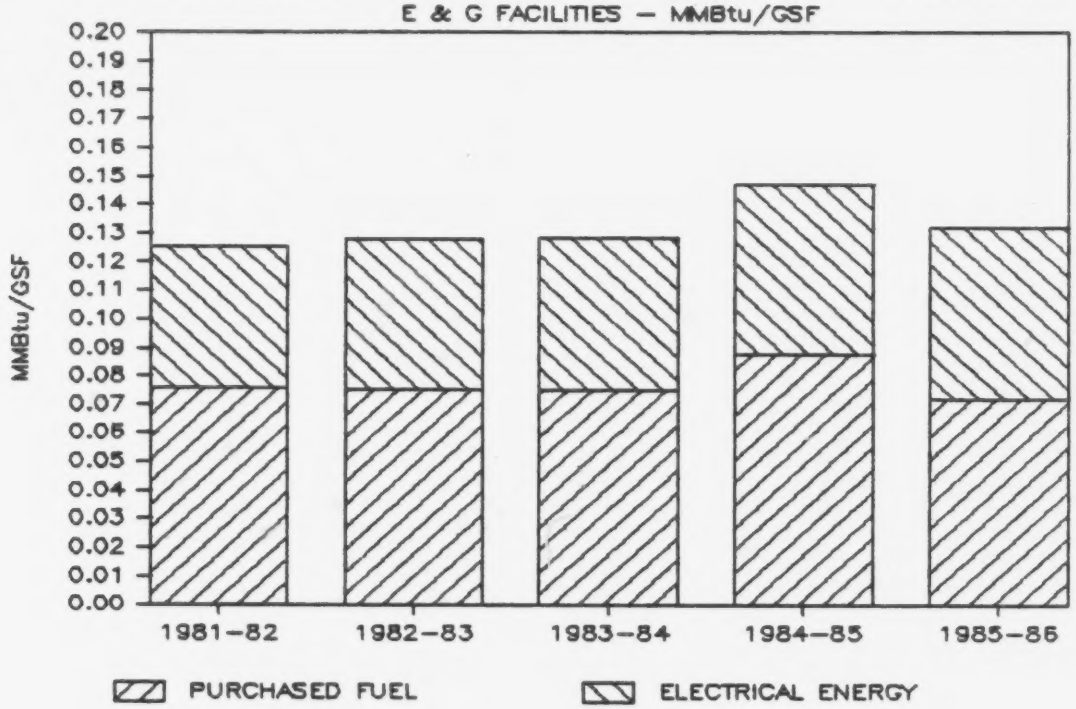
ENERGY USAGE – TOTALS – SENIOR

ENTIRE CAMPUS – MMBtu/GSF



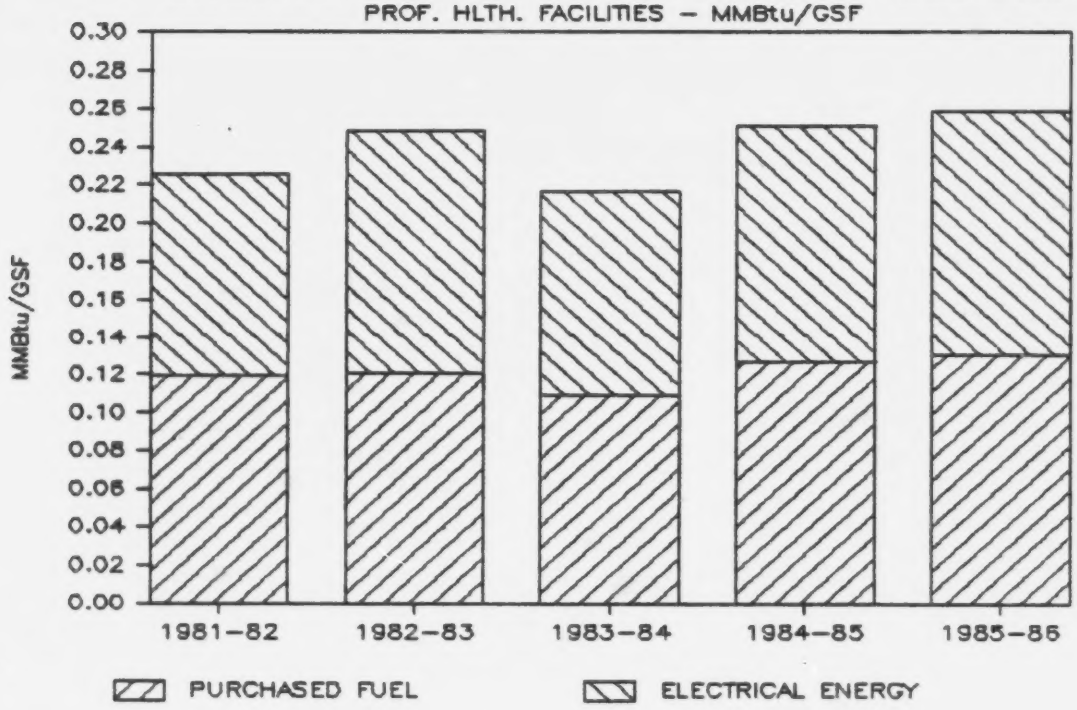
ENERGY USAGE – TOTALS – SENIOR

E & G FACILITIES – MMBtu/GSF



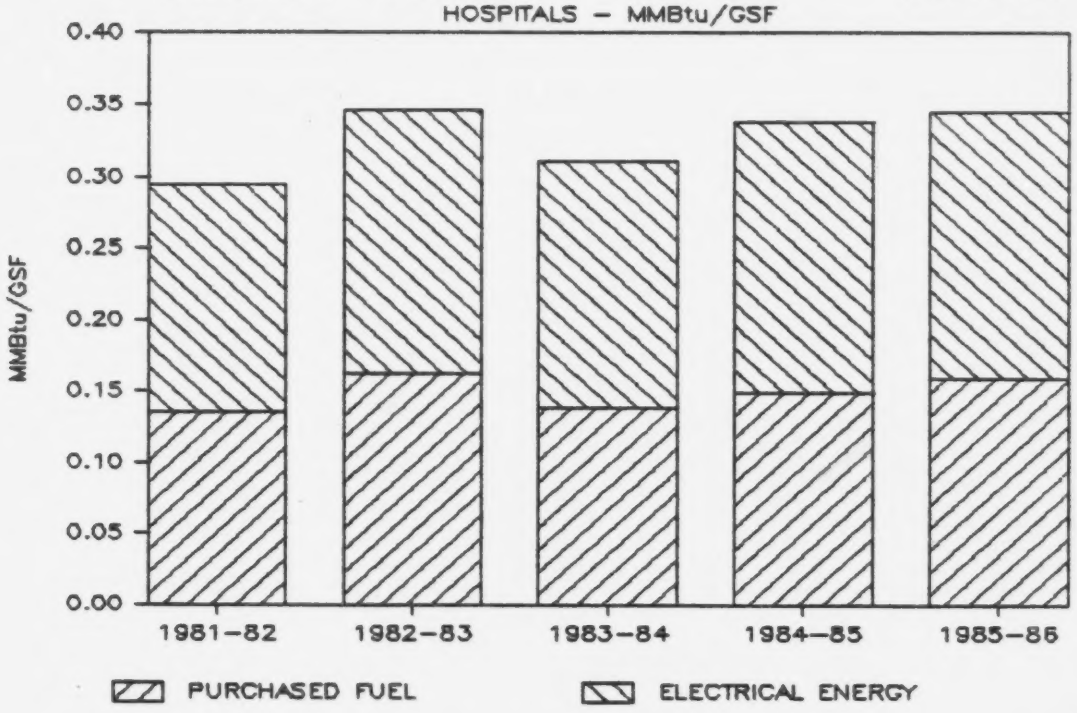
ENERGY USAGE – TOTALS – SENIOR

PROF. HLTH. FACILITIES – MMBtu/GSF

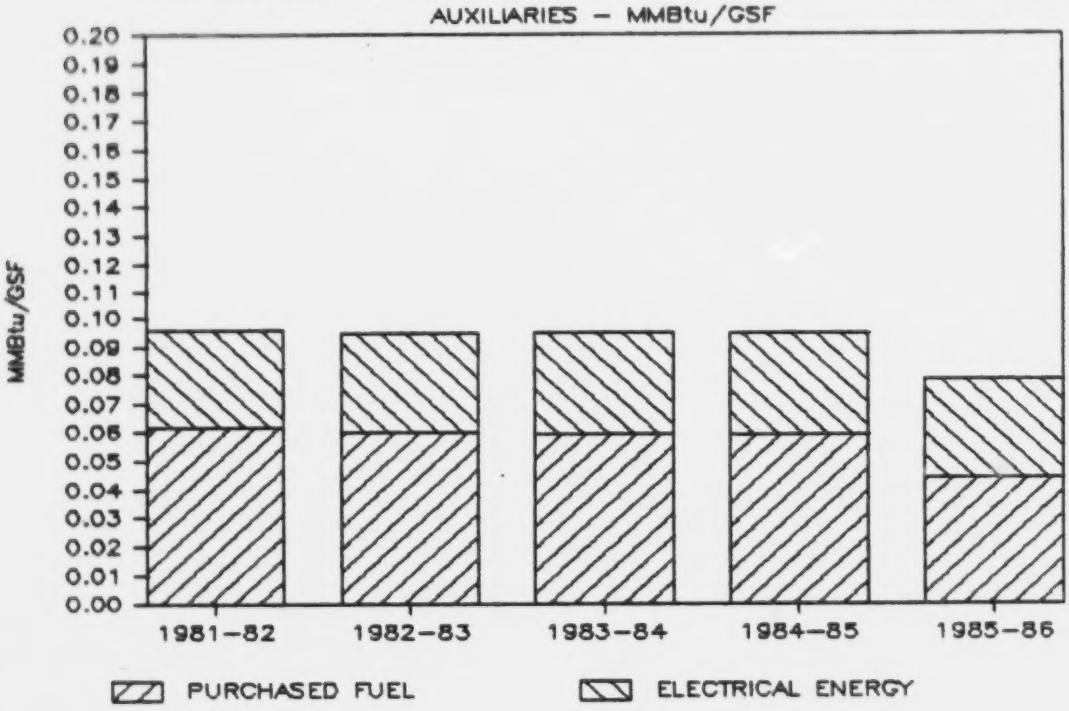


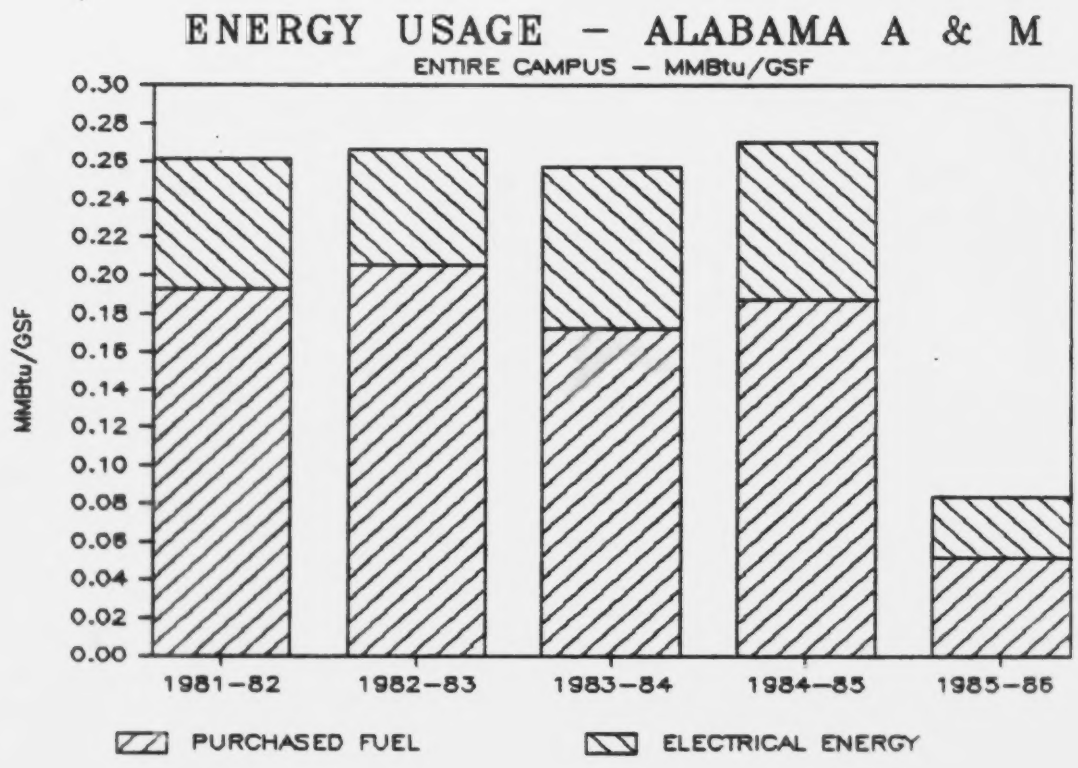
ENERGY USAGE – TOTALS – SENIOR

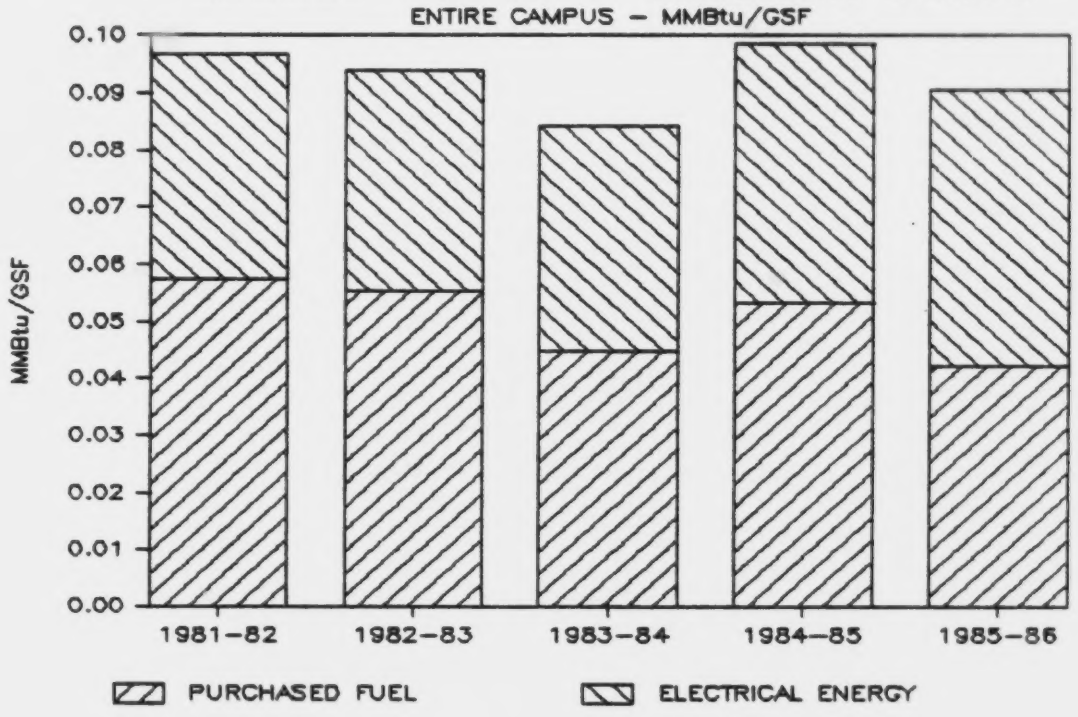
HOSPITALS – MMBtu/GSF



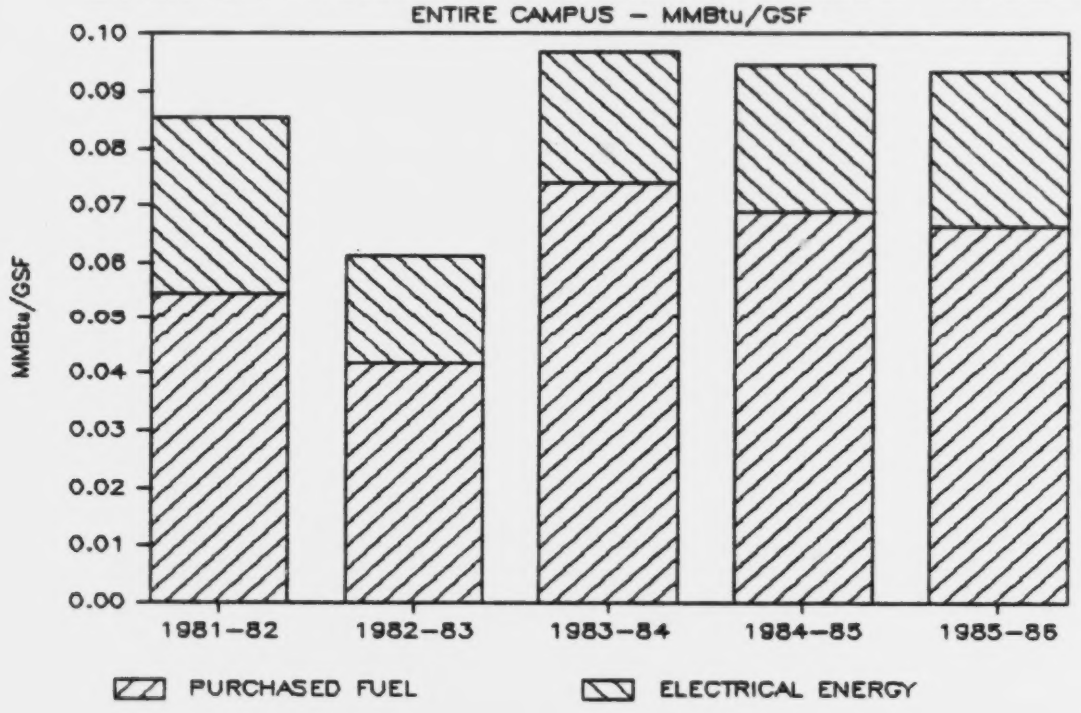
ENERGY USAGE – TOTALS – SENIOR



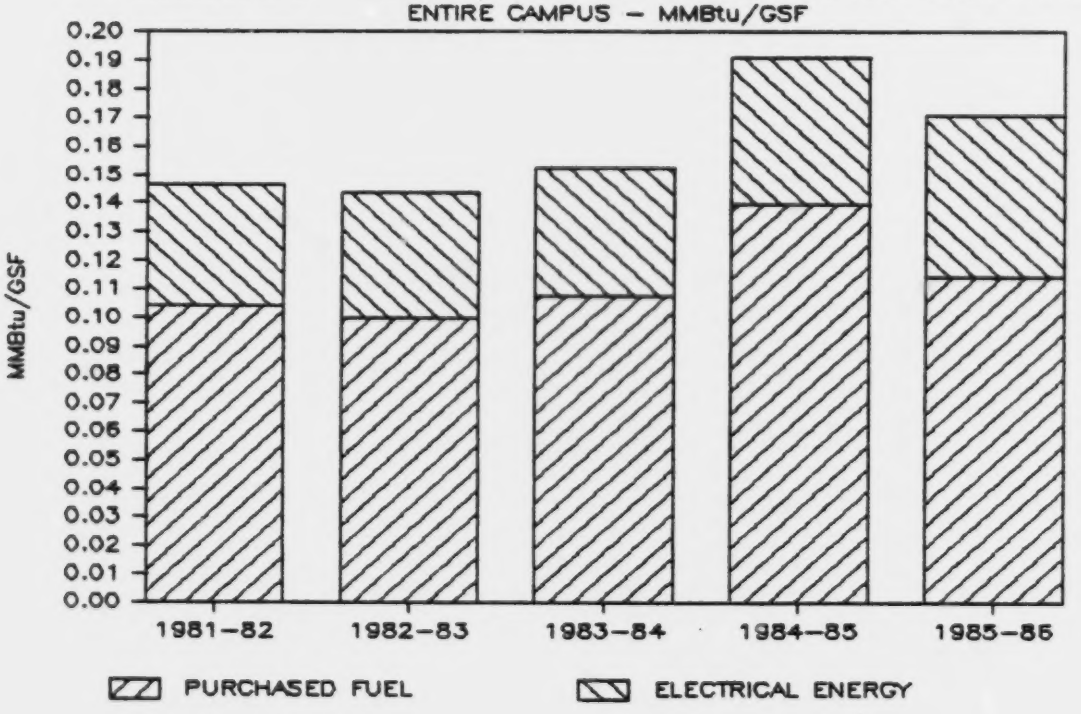

ENERGY USAGE – ALABAMA A & M
ENTIRE CAMPUS – MMBtu/GSF
MMBtu/GSF
0.30
0.28
0.26
0.24
0.22
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
1981–82
1982–83
1983–84
1984–85
1985–86
PURCHASED FUEL
ELECTRICAL ENERGY


ENERGY USAGE – ALABAMA STATE
ENTIRE CAMPUS – MMBtu/GSF
MMBtu/GSF
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
1981–82
1982–83
1983–84
1984–85
1985–86
PURCHASED FUEL
ELECTRICAL ENERGY

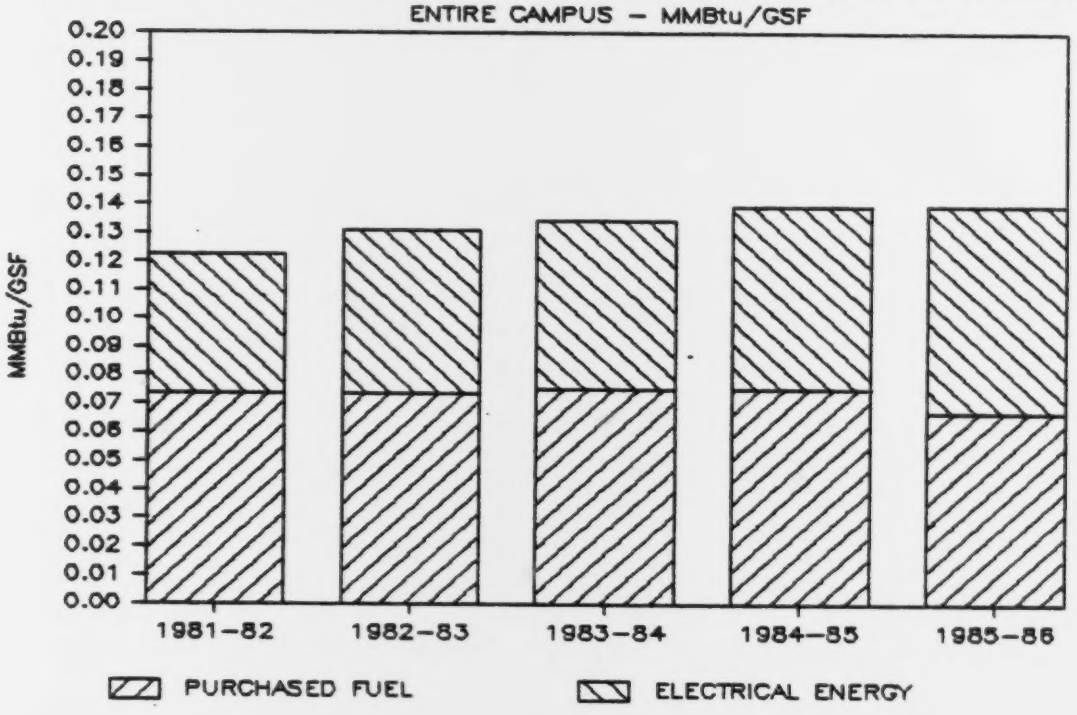
ENERGY USAGE – ATHENS STATE COLLEGE



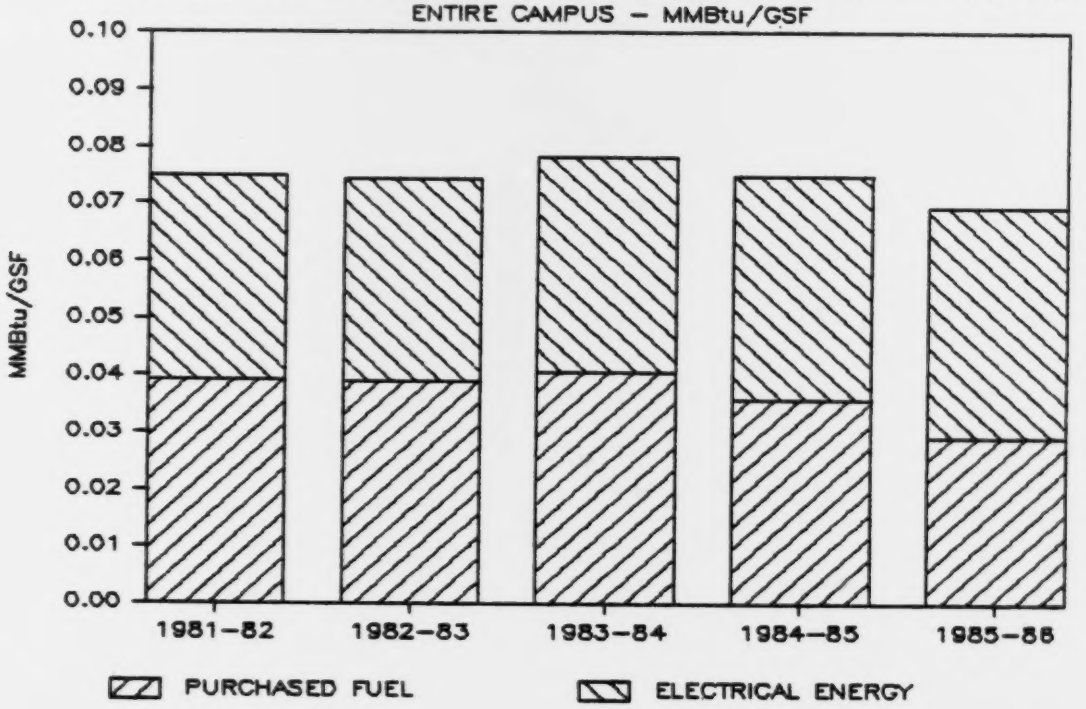
ENERGY USAGE – AUBURN UNIVERSITY



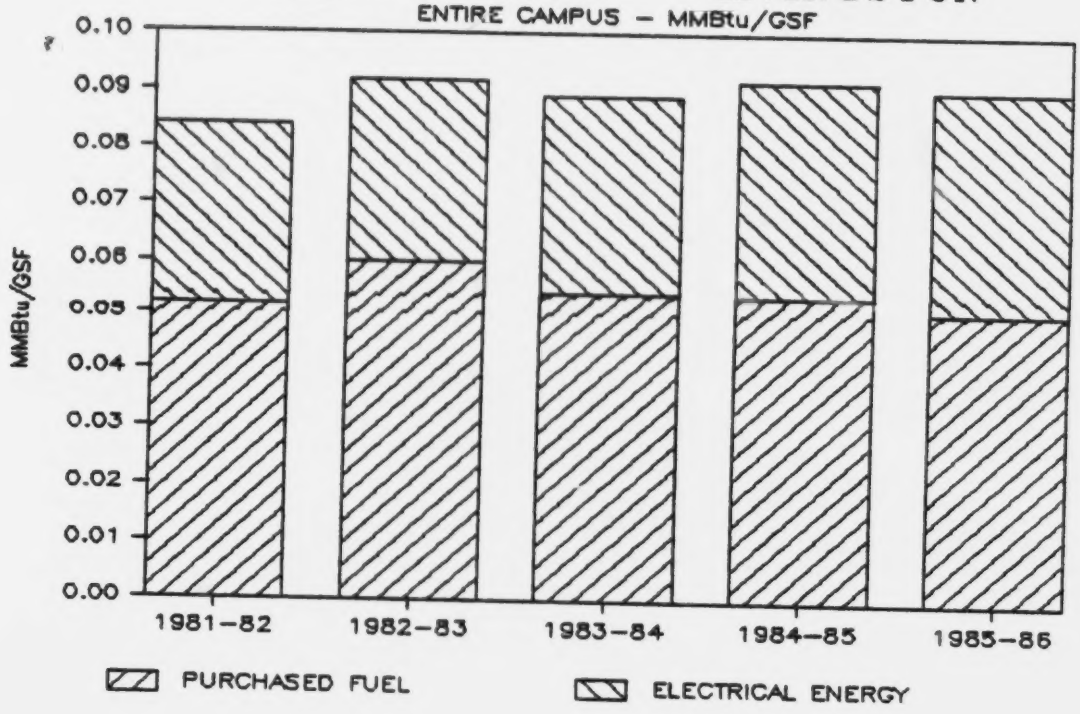
ENERGY USAGE – AUBURN/MONTGOMERY



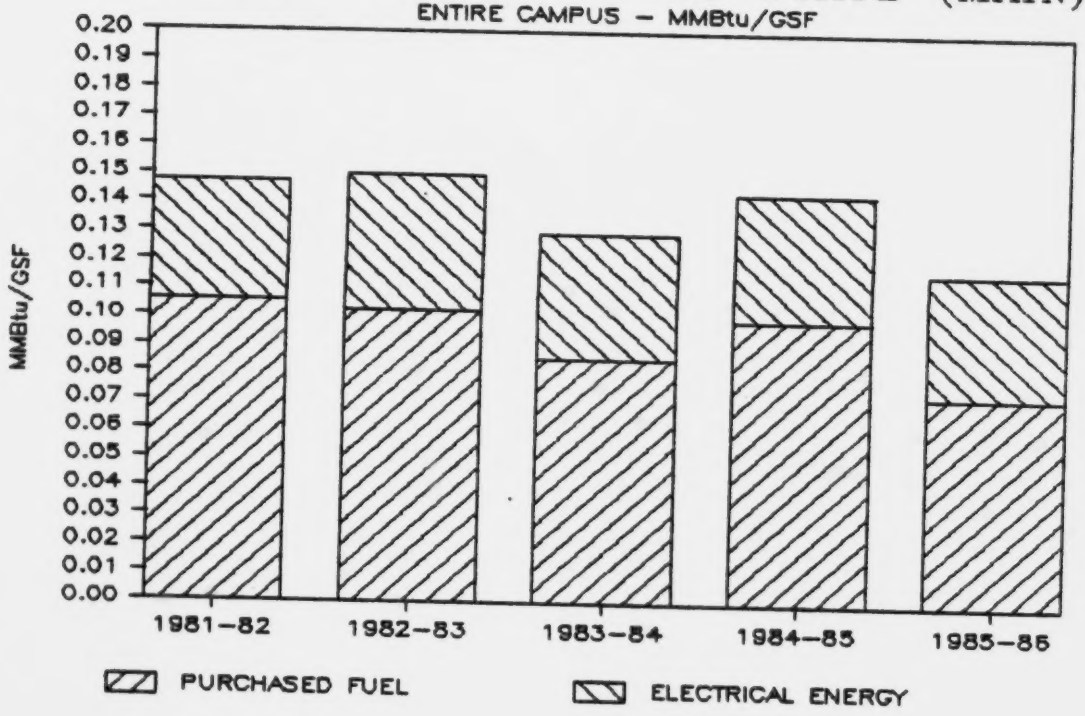
ENERGY USAGE – JACKSONVILLE STATE



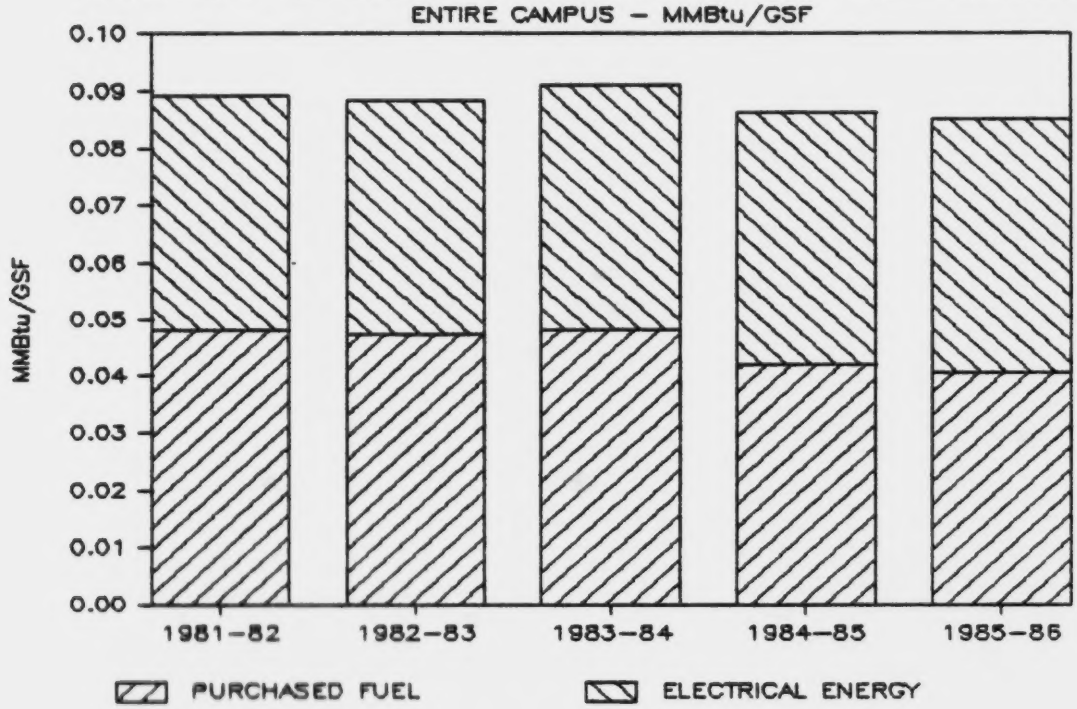
ENERGY USAGE – LIVINGSTON



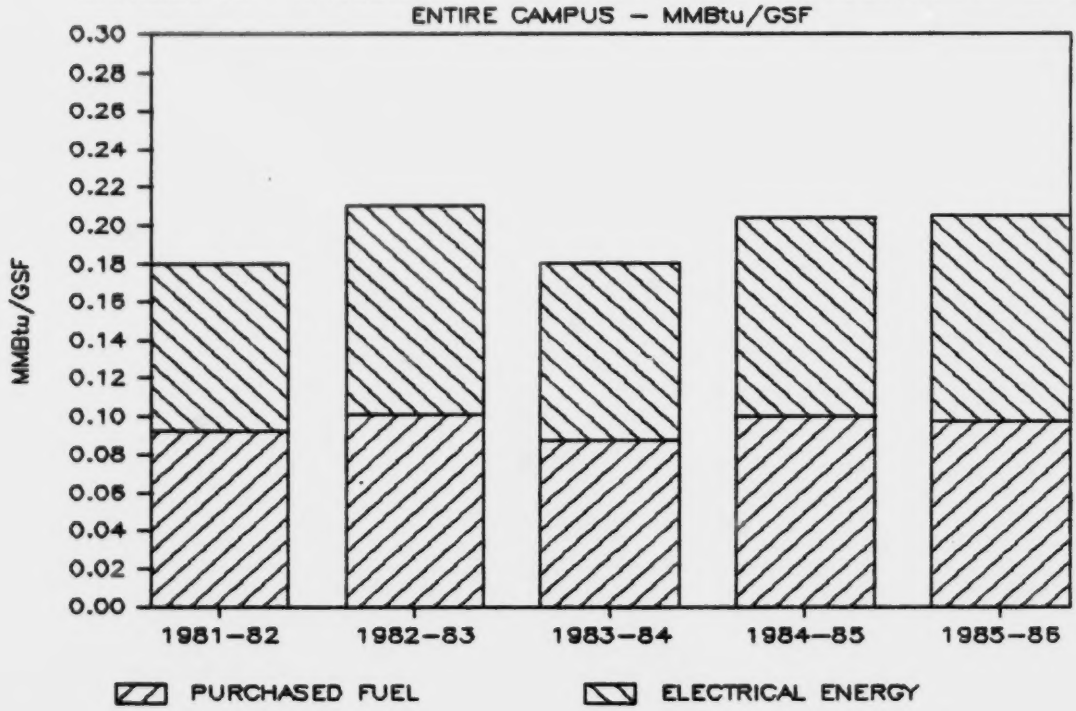
ENERGY USAGE – TROY STATE (MAIN)



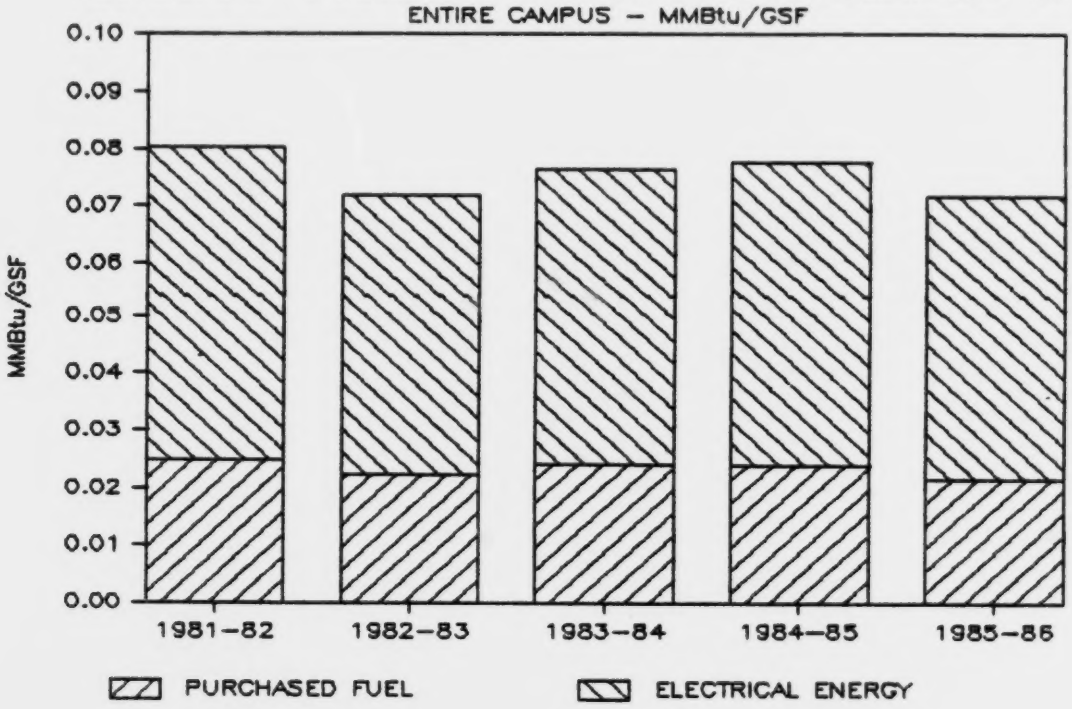
ENERGY USAGE – UNIVERSITY OF ALABAMA



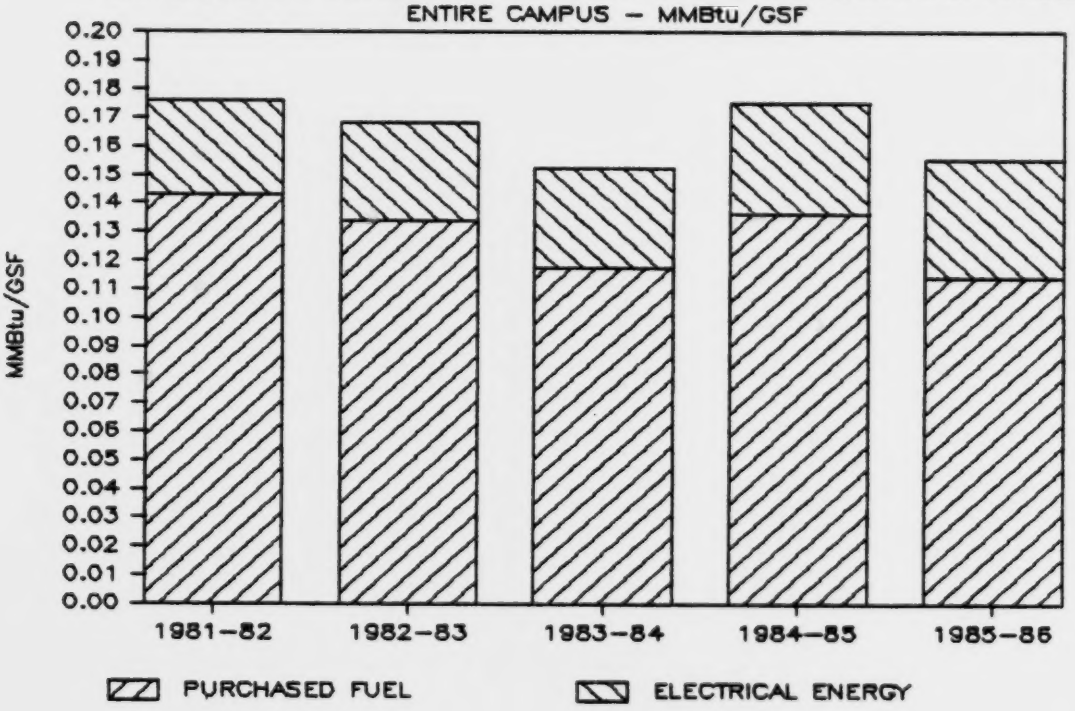
ENERGY USAGE – UNIV. OF ALABAMA/BHM.



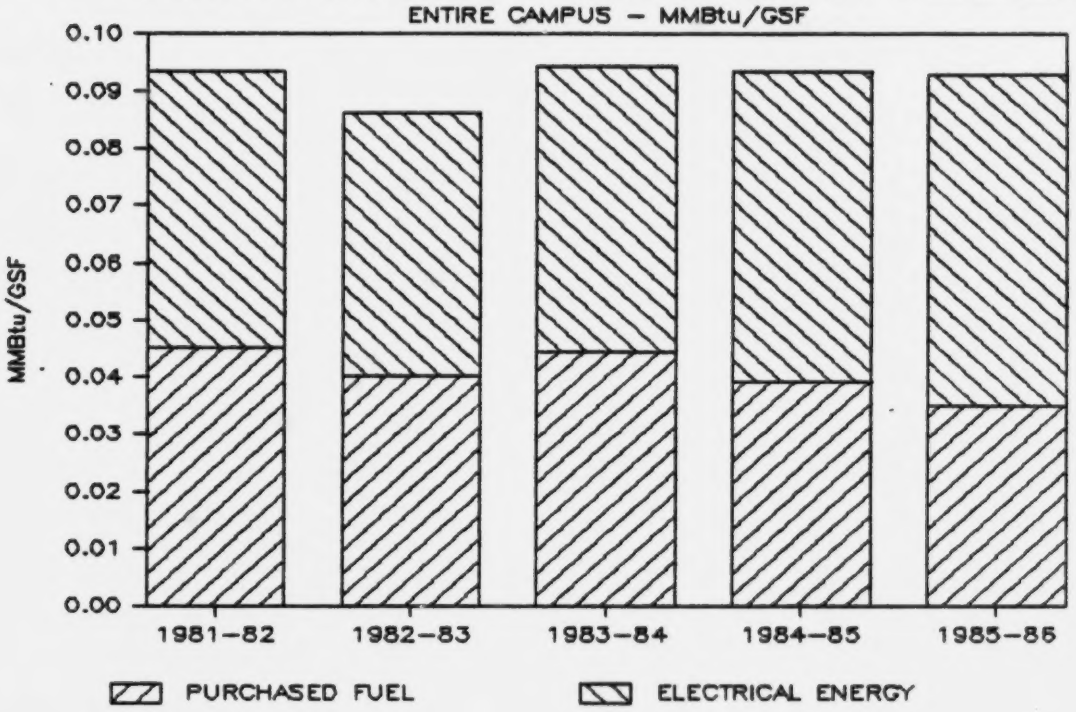
ENERGY USAGE – UNIV. OF ALABAMA/HVL.



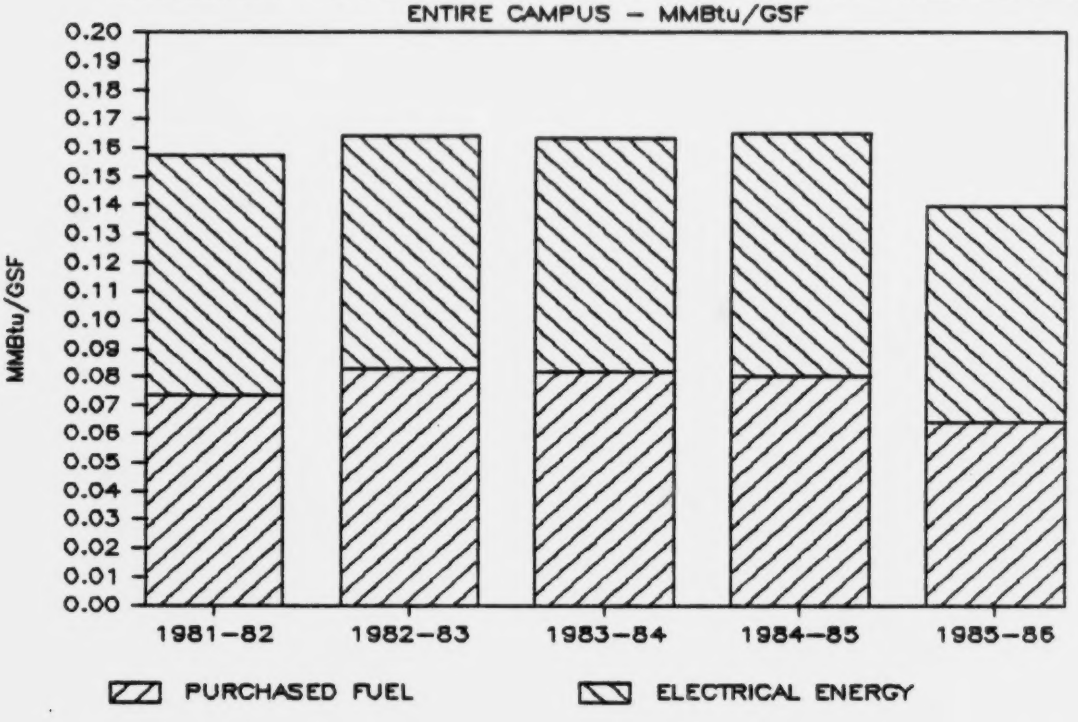
ENERGY USAGE – UNIV. OF MONTEVALLO



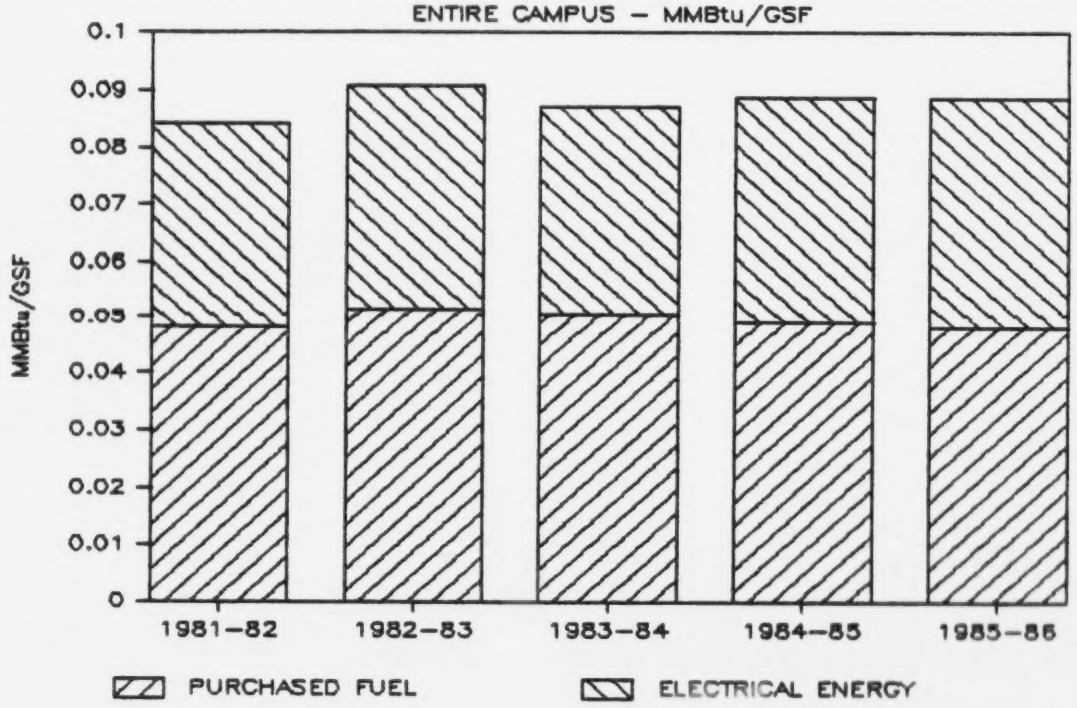
ENERGY USAGE – UNIV. OF N. ALABAMA



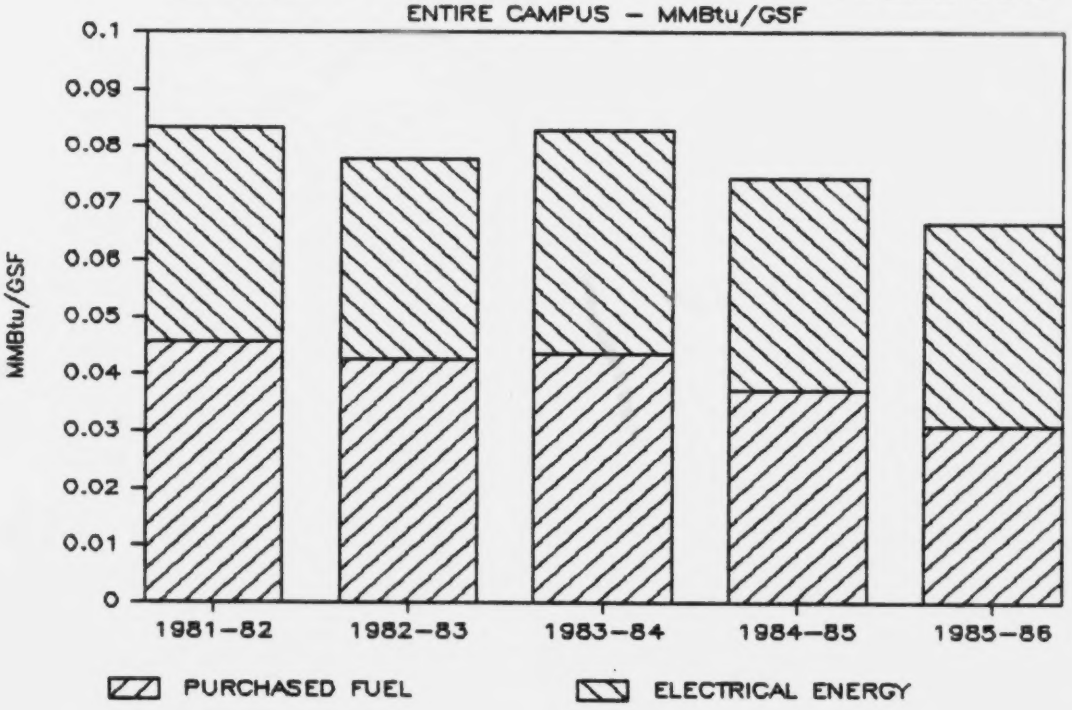
ENERGY USAGE – UNIV. OF S. ALABAMA



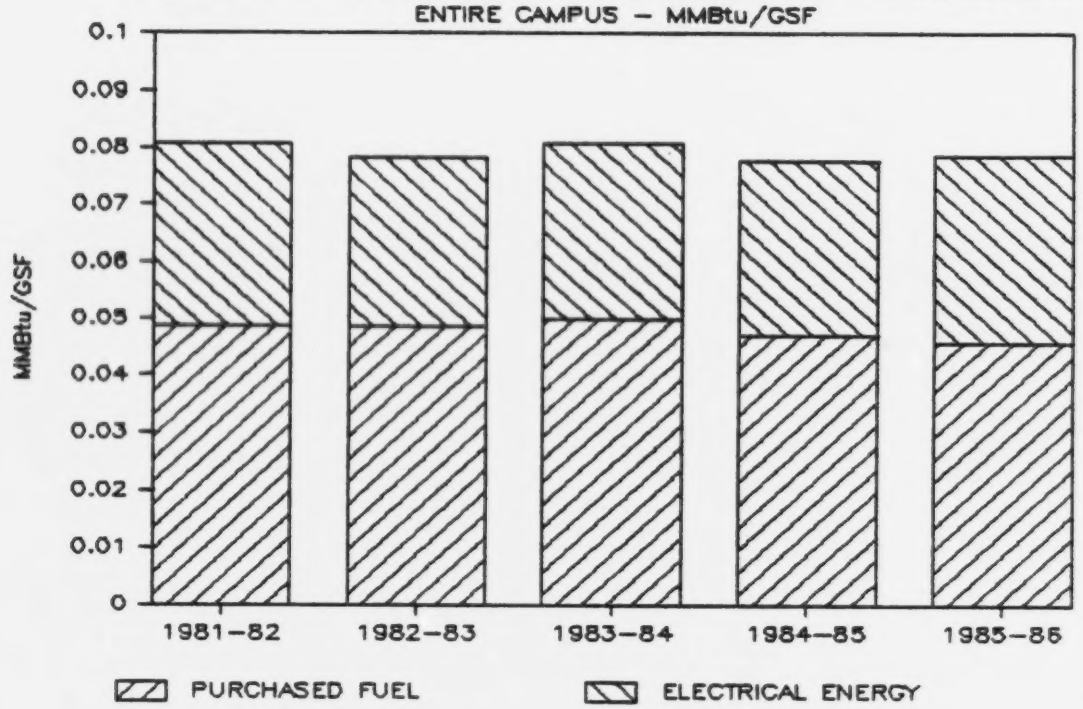
ENERGY USAGE – COMMUNITY COLLEGES



ENERGY USAGE – JUNIOR COLLEGES



ENERGY USAGE – TECHNICAL COLLEGES



UTILITIES USAGE AND COST SUMMARY

Senior Institutions

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
AS OF JUNE 30, 1986

SENIOR INSTITUTIONS

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTRICAL ENERGY (MEGA WATT-HRS)	(MMBTU- 3.414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
ALABAMA A&M UNIVERSITY													
E & G:	1981-82	445,562	71,648	0.161	7,439.9	25,400	0.057	97,048	0.218	$775,272	$1.740		
(OTHER THAN PROF MLTH)	1982-83	445,562	76,310	0.171	6,594.6	22,514	0.051	98,824	0.222	$936,188	$2.101		
	1983-84	445,562	63,052	0.141	9,182.2	31,348	0.070	95,200	0.214	$827,083	$1.856		
	1984-85	445,562	69,360	0.156	9,004.5	31,014	0.070	100,382	0.225	$907,261	$2.036		
	1985-86 (1)	718,114	47,275	0.066	8,810.2	30,078	0.042	77,353	0.108	$687,517	$0.964		
AUXILIARY & OTHER:	1981-82	67,853	27,586	0.407	2,864.7	9,780	0.144	37,366	0.551	$298,512	$4.399		
	1982-83	67,853	29,303	0.432	2,539.2	8,669	0.128	38,052	0.561	$360,468	$5.312		
	1983-84	67,853	24,506	0.362	3,535.5	12,070	0.178	36,636	0.540	$318,434	$4.693		
	1984-85	67,853	26,710	0.394	3,497.9	11,942	0.176	38,652	0.570	$350,436	$5.165		
	1985-86 (1)	361,326	10,203	0.032	3,392.8	11,581	0.021	29,784	0.059	$264,722	$0.472		
TOTAL:	1981-82	513,415	99,234	0.193	10,304.6	35,180	0.069	134,414	0.262	$1,073,784	$2.091	3,325	1,539
	1982-83	513,415	105,693	0.206	9,133.8	31,183	0.061	136,876	0.267	$1,296,656	$2.526	3,350	1,521
	1983-84	513,415	88,438	0.172	12,717.7	43,418	0.085	131,836	0.257	$1,145,437	$2.231	3,726	1,804
	1984-85	513,415	96,070	0.187	12,502.4	42,956	0.084	139,034	0.271	$1,257,717	$2.450	3,182	1,631
	1985-86 (1)	1,274,440	65,478	0.051	12,202.5	41,659	0.033	107,137	0.084	$952,239	$0.747	3,068	1,754
ALABAMA STATE UNIVERSITY													
E & G:	1981-82	376,172	24,714	0.043	8,315.0	28,387	0.049	53,101	0.092	$597,811	$1.038		
(OTHER THAN PROF MLTH)	1982-83	551,467	25,997	0.047	7,913.4	27,016	0.049	53,013	0.096	$660,965	$1.199		
	1983-84	551,467	16,147	0.029	6,689.5	22,838	0.041	38,985	0.071	$595,191	$1.079		
	1984-85	551,467	21,287	0.039	8,899.5	30,383	0.055	51,670	0.094	$754,634	$1.368		
	1985-86	551,467	15,976	0.029	9,592.1	32,747	0.059	48,723	0.088	$759,148	$1.377		
AUXILIARY & OTHER:	1981-82	378,195	30,821	0.079	2,665.4	9,100	0.024	39,121	0.103	$316,174	$0.836		
	1982-83	403,796	26,689	0.066	2,926.4	9,991	0.025	36,680	0.091	$349,382	$0.865		
	1983-84	434,772	28,130	0.065	4,787.3	16,071	0.037	44,209	0.102	$523,233	$1.203		
	1984-85	434,772	31,134	0.072	4,237.2	14,466	0.033	45,600	0.105	$515,338	$1.185		
	1985-86	434,772	25,692	0.059	4,345.8	14,837	0.034	40,529	0.093	$483,352	$1.112		
TOTAL:	1981-82	954,367	54,735	0.057	10,980.6	37,488	0.039	92,223	0.097	$913,985	$0.958	2,152	2,439
	1982-83	955,263	52,686	0.055	10,839.8	37,007	0.039	89,693	0.094	$1,010,347	$1.058	2,148	2,193
	1983-84	986,239	44,285	0.045	11,396.8	38,909	0.039	83,194	0.084	$1,118,424	$1.134	2,412	2,239
	1984-85	986,239	52,421	0.053	13,136.7	44,849	0.045	97,270	0.099	$1,269,972	$1.288	1,913	2,487
	1985-86	986,239	41,668	0.042	13,937.9	47,584	0.048	89,252	0.090	$1,242,500	$1.260	2,054	2,398

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
AS OF JUNE 30, 1986

SENIOR INSTITUTIONS

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTRICAL ENE (MEGA WATT-HRS)	(MMBTU- 3.414 X MW
ATHENS STATE COLLEGE						
E & G:	1981-82	161,598	9,111	0.056	1,518.6	5,185
(OTHER THAN PROF HLTH)	1982-83	161,598	6,968	0.043	952.7	3,253
	1983-84	147,450	9,853	0.067	895.1	3,056
	1984-85	147,450	9,186	0.062	996.0	3,400
	1985-86	150,331	8,834	0.056	1,047.1	3,575
AUXILIARY & OTHER:	1981-82	86,098	4,398	0.051	733.2	2,503
	1982-83	86,098	3,365	0.039	459.9	1,570
	1983-84	49,888	4,758	0.095	432.2	1,476
	1984-85	49,888	4,439	0.089	480.9	1,642
	1985-86	39,867	4,265	0.109	505.5	1,726
TOTAL:	1981-82	247,696	13,509	0.055	2,251.8	7,688
	1982-83	247,696	10,333	0.042	1,412.6	4,823
	1983-84	197,338	14,611	0.074	1,327.3	4,531
	1984-85	197,338	13,625	0.069	1,476.9	5,042
	1985-86	197,338	13,099	0.066	1,552.7	5,301
AUBURN UNIVERSITY						
E & G:	1981-82	3,017,151	329,848	0.109	40,795.1	139,274
(INCL PROF HLTH)	1982-83	3,007,851	306,789	0.102	45,326.5	154,745
	1983-84	3,175,212	355,270	0.112	46,978.0	160,383
	1984-85	3,225,077	554,479	0.172	56,710.4	193,609
	1985-86	3,329,841	505,304	0.152	63,676.8	217,392
AUXILIARY & OTHER:	1981-82	1,932,201	184,913	0.096	20,548.8	70,154
	1982-83	1,913,721	183,942	0.096	18,430.3	62,921
	1983-84	1,922,823	193,388	0.101	20,047.2	68,441
	1984-85	1,926,049	158,472	0.082	20,281.7	69,242
	1985-86	1,891,944	90,925	0.048	22,247.3	75,952
TOTAL	1981-82	4,949,352	514,761	0.104	61,343.9	209,428
	1982-83	4,921,572	490,731	0.100	63,756.8	217,666
	1983-84	5,098,035	548,658	0.108	67,025.2	228,824
	1984-85	5,151,126	712,951	0.138	76,992.1	262,851
	1985-86	5,221,785	596,229	0.114	85,924.1	293,345

GY (MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
0.032	14,296	0.088	$120,651	$0.747		
0.020	10,221	0.063	$102,884	$0.637		
0.021	12,909	0.080	$117,716	$0.798		
0.023	12,586	0.085	$117,494	$0.797		
0.023	12,409	0.078	$115,047	$0.727		
0.029	6,901	0.080	$58,250	$0.677		
0.018	4,935	0.057	$49,672	$0.577		
0.030	6,234	0.125	$56,833	$1.139		
0.033	6,081	0.122	$56,226	$1.127		
0.044	5,991	0.154	$59,533	$1.424		
0.031	21,197	0.086	$178,901	$0.722	3,325	1,539
0.019	15,156	0.061	$152,556	$0.616	3,350	1,521
0.023	19,142	0.097	$174,549	$0.885	3,726	1,804
0.026	18,667	0.095	$173,720	$0.880	3,182	1,651
0.027	18,400	0.093	$170,580	$0.864	3,068	1,754
0.046	469,122	0.155	$3,267,388	$1.083		
0.051	461,534	0.153	$3,709,847	$1.233		
0.051	515,653	0.162	$4,077,082	$1.284		
0.060	748,088	0.232	$5,498,328	$1.705		
0.065	722,696	0.217	$5,710,570	$1.715		
0.036	255,067	0.132	$1,695,986	$0.878		
0.033	246,863	0.129	$1,894,680	$0.990		
0.036	261,829	0.136	$2,067,261	$1.075		
0.036	227,714	0.118	$1,910,521	$0.992		
0.040	166,877	0.088	$1,942,588	$1.027		
0.042	724,189	0.146	$4,963,374	$1.003	2,152	2,439
0.044	708,397	0.144	$5,604,527	$1.139	2,140	2,193
0.045	777,482	0.153	$6,144,343	$1.205	2,412	2,239
0.051	975,802	0.189	$7,408,849	$1.438	1,913	2,407
0.056	889,574	0.170	$7,653,158	$1.466	2,054	2,398

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AS OF JUNE 30, 1986

SENIOR INSTITUTIONS

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTRIC (MEGA WATT-HRS)	(
AUBURN UNIV/MONTGOMERY						
E & G:	1981-82	371,751	27,034	0.073	5,293.0	
(OTHER THAN PROF HLTH)	1982-83	362,719	27,096	0.075	6,210.1	
	1983-84	421,559	33,170	0.079	7,647.0	
	1984-85	421,559	33,790	0.080	8,445.8	
	1985-86	421,559	30,414	0.072	9,447.6	
AUXILIARY & OTHER:	1981-82	84,413	6,462	0.077	1,265.8	
	1982-83	92,267	6,289	0.068	1,449.2	
	1983-84	111,881	6,784	0.061	1,585.2	
	1984-85	111,881	6,329	0.057	1,581.6	
	1985-86	111,881	5,857	0.048	1,782.8	
TOTAL	1981-82	456,164	33,496	0.073	6,558.8	
	1982-83	454,986	33,385	0.073	7,659.3	
	1983-84	533,440	39,954	0.075	9,232.2	
	1984-85	533,440	40,118	0.075	10,027.4	
	1985-86	533,440	35,771	0.067	11,370.5	
JACKSONVILLE ST UNIV						
E & G:	1981-82	1,082,943	44,494	0.041	11,924.9	
(OTHER THAN PROF HLTH)	1982-83	1,049,782	45,683	0.044	12,109.5	
	1983-84	1,049,782	47,659	0.045	12,859.3	
	1984-85	1,049,782	41,987	0.040	13,383.6	
	1985-86	1,065,021	35,023	0.033	14,061.9	
AUXILIARY & OTHER:	1981-82	614,415	21,900	0.036	5,073.5	
	1982-83	695,760	22,518	0.032	5,964.4	
	1983-84	695,760	23,470	0.034	6,330.7	
	1984-85	695,760	20,677	0.030	6,591.9	
	1985-86	718,990	17,251	0.024	6,926.0	
TOTAL	1981-82	1,697,358	66,402	0.039	17,798.4	
	1982-83	1,745,542	68,201	0.039	18,073.9	
	1983-84	1,745,542	71,129	0.041	19,184.0	
	1984-85	1,745,542	62,664	0.036	19,975.5	
	1985-86	1,784,011	52,274	0.029	20,987.9	

AL ENERGY MBTU- 4 X MMH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
8,070	0.049	45,104	0.121	$493,527	$1.328		
1,201	0.050	48,297	0.133	$579,996	$1.599		
6,107	0.062	59,277	0.141	$674,659	$1.600		
8,034	0.068	62,624	0.149	$742,983	$1.762		
3,005	0.078	63,419	0.150	$757,313	$1.796		
4,320	0.051	10,782	0.120	$117,983	$1.390		
4,948	0.054	11,237	0.122	$90,623	$0.982		
5,412	0.048	12,196	0.109	$130,821	$1.241		
5,400	0.048	11,720	0.105	$139,130	$1.244		
5,814	0.052	11,171	0.100	$133,413	$1.192		
2,390	0.049	55,004	0.123	$611,510	$1.341	2,152	2,439
6,149	0.057	59,534	0.131	$670,619	$1.474	2,140	2,193
1,519	0.059	71,478	0.134	$813,488	$1.525	2,412	2,239
4,234	0.064	74,352	0.139	$882,121	$1.654	1,913	2,407
8,819	0.073	74,598	0.148	$898,726	$1.670	2,054	2,398
0,712	0.038	85,204	0.079	$717,485	$0.663		
1,342	0.039	87,025	0.083	$763,421	$0.727		
3,881	0.042	91,540	0.087	$819,540	$0.781		
5,692	0.044	87,679	0.084	$855,449	$0.815		
8,007	0.045	83,030	0.078	$866,371	$0.813		
0,052	0.033	41,960	0.048	$358,389	$0.575		
0,362	0.029	42,880	0.042	$374,014	$0.540		
1,613	0.031	45,983	0.045	$403,444	$0.580		
2,505	0.032	43,182	0.042	$421,346	$0.606		
3,645	0.033	40,896	0.037	$426,716	$0.593		
0,744	0.036	127,144	0.075	$1,070,874	$0.631	2,007	1,941
1,704	0.035	129,905	0.074	$1,139,435	$0.653	2,977	1,796
5,494	0.038	136,623	0.078	$1,223,224	$0.701	3,296	1,860
8,196	0.039	130,860	0.075	$1,276,795	$0.731	2,708	1,909
1,453	0.040	123,927	0.069	$1,293,087	$0.725	2,586	1,948

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SENIOR INSTITUTIONS

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTRI (MEGA WATT-HRS)
LIVINGSTON UNIVERSITY					
E & G:	1981-82	413,534	20,478	0.050	3,362.7
(OTHER THAN PROF HLTH)	1982-83	420,037	21,485	0.051	3,025.4
	1983-84	420,037	15,886	0.038	3,091.3
	1984-85	420,037	16,224	0.039	3,236.1
	1985-86	420,037	14,982	0.035	3,376.8
AUXILIARY & OTHER:	1981-82	216,633	12,347	0.057	336.4
	1982-83	212,777	16,580	0.078	852.3
	1983-84	212,777	18,748	0.088	1,285.0
	1984-85	212,777	17,819	0.084	1,824.3
	1985-86	212,777	17,566	0.083	1,883.5
TOTAL	1981-82	630,167	32,825	0.052	3,899.1
	1982-83	632,814	38,065	0.060	3,877.7
	1983-84	632,814	34,634	0.055	4,376.3
	1984-85	632,814	34,043	0.054	7,060.4
	1985-86	632,814	32,468	0.051	7,260.2
TROY STATE UNIV - MAIN					
E & G:	1981-82	787,566	75,789	0.107	8,812.1
(OTHER THAN PROF HLTH)	1982-83	789,491	73,750	0.104	10,052.1
	1983-84	789,491	61,537	0.087	9,367.8
	1984-85	789,491	74,537	0.105	9,077.9
	1985-86	739,689	54,439	0.074	9,043.6
AUXILIARY & OTHER:	1981-82	470,799	48,423	0.103	5,633.9
	1982-83	472,240	47,120	0.100	6,426.8
	1983-84	475,952	39,317	0.083	5,950.4
	1984-85	475,952	42,953	0.090	5,995.7
	1985-86	481,570	34,810	0.072	5,986.6
TOTAL	1981-82	1,178,365	124,212	0.105	14,446.0
	1982-83	1,181,731	120,870	0.102	16,478.9
	1983-84	1,185,443	100,854	0.085	15,257.4
	1984-85	1,185,443	117,490	0.099	15,073.6
	1985-86	1,221,259	89,249	0.073	15,350.2

CAL ENERGY MMBTU- (4 X MM)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
10,308	0.044	30,786	0.094	$305,242	$0.932		
17,157	0.041	30,442	0.092	$401,097	$0.955		
17,382	0.041	33,268	0.079	$396,393	$0.944		
17,876	0.043	34,188	0.081	$403,730	$0.961		
18,356	0.044	33,258	0.079	$390,255	$0.940		
1,831	0.008	14,178	0.065	$105,317	$0.486		
2,910	0.014	19,490	0.092	$149,493	$0.703		
4,307	0.021	23,135	0.109	$196,924	$0.878		
6,228	0.029	24,047	0.113	$221,026	$1.039		
6,430	0.030	23,996	0.113	$210,760	$1.020		
20,140	0.032	52,965	0.084	$490,359	$0.778	2,100	2,493
20,066	0.032	58,131	0.092	$550,590	$0.870	2,233	2,131
21,749	0.034	56,403	0.089	$583,517	$0.922	2,939	1,831
24,104	0.038	58,147	0.092	$624,756	$0.987	2,284	2,903
24,786	0.039	57,234	0.090	$617,015	$0.975	2,293	2,220
90,085	0.043	105,874	0.150	$643,033	$0.909		
94,318	0.044	100,660	0.132	$825,804	$1.164		
91,774	0.045	93,311	0.132	$698,547	$0.985		
92,016	0.045	106,559	0.150	$704,183	$0.993		
91,967	0.043	86,486	0.117	$743,122	$1.005		
99,234	0.041	47,657	0.144	$489,968	$0.871		
91,941	0.046	49,041	0.146	$526,886	$1.116		
90,315	0.043	59,632	0.125	$446,614	$0.938		
90,449	0.043	63,422	0.133	$459,210	$0.946		
90,438	0.042	55,240	0.115	$475,112	$0.987		
99,319	0.042	173,531	0.147	$1,053,001	$0.894	2,152	2,439
96,259	0.040	177,129	0.150	$1,352,770	$1.145	2,140	2,193
92,089	0.044	152,943	0.129	$1,145,161	$0.966	2,412	2,239
92,485	0.044	169,975	0.143	$1,154,393	$0.974	1,913	2,407
92,404	0.043	141,653	0.116	$1,210,234	$0.990	2,054	2,390

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SENIOR INSTITUTIONS

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTRI (MEGA WATT-HRS)	(3.4
TROY STATE UNIV - DOTHAN						
E & G:	1981-82	50,527	521	0.010	312.0	
(OTHER THAN PROF MLTH)	1982-83	55,869	1,066	0.019	329.9	
	1983-84	63,699	914	0.014	374.2	
	1984-85	63,699	930	0.015	457.8	
	1985-86	63,699	880	0.014	480.4	
AUXILIARY & OTHER:	1981-82	2,436	35	0.014	21.0	
	1982-83	5,681	72	0.013	22.2	
	1983-84	1,700	62	0.036	25.2	
	1984-85	1,700	63	0.037	30.8	
	1985-86	1,700	59	0.035	32.9	
TOTAL	1981-82	52,963	556	0.010	333.0	
	1982-83	60,750	1,138	0.019	352.1	
	1983-84	65,399	976	0.015	399.4	
	1984-85	65,399	1,001	0.015	488.6	
	1985-86	65,399	939	0.014	512.7	
TROY STATE UNIV - MTGY						
E & G (EXCL MLTH):	1984-85	42,830	4,512	0.105	1,181.1	
	1985-86	45,740	4,553	0.069	1,351.5	
AUXILIARY & OTHER:	1984-85	340	0	0.000	0.0	
	1985-86	340	0	0.000		
TOTAL:	1984-85	43,170	4,512	0.104	1,181.1	
	1985-86	46,080	4,553	0.069	1,351.5	

AL ENERGY MBTU- (4 X MM)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
1,065	0.021	1,586	0.031	$17,236	$0.341		
1,126	0.020	2,192	0.040	$25,763	$0.468		
1,270	0.020	2,192	0.034	$26,755	$0.420		
1,563	0.025	2,501	0.039	$35,622	$0.559		
1,640	0.026	2,520	0.040	$38,886	$0.610		
72	0.029	107	0.044	$1,158	$0.475		
74	0.013	148	0.026	$1,722	$0.303		
86	0.051	148	0.087	$1,796	$1.056		
105	0.042	168	0.099	$2,394	$1.408		
110	0.045	169	0.100	$2,620	$1.541		
1,137	0.021	1,693	0.032	$18,394	$0.347	2,272	2,324
1,202	0.020	2,340	0.039	$27,485	$0.452	2,166	2,252
1,364	0.021	2,340	0.036	$28,551	$0.437	2,460	2,382
1,668	0.026	2,669	0.041	$38,016	$0.581	2,018	2,441
1,750	0.027	2,689	0.041	$41,506	$0.635	1,847	2,532
4,032	0.094	8,544	0.199	$105,985	$2.472		
4,614	0.070	9,167	0.139	$131,048	$2.005		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
4,032	0.093	8,544	0.198	$105,985	$2.453	1,913	2,407
4,614	0.070	9,167	0.139	$131,048	$1.995	2,054	2,398

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SENIOR INSTITUTIONS

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTRIC (MEGA WATT-HRS)	(M 3.4
TROY STATE UNIV - PHX						
E & G (EXCL HLTH):	1984-85	1,325	0	0.000	103.5	
	1985-86	5,520	0	0.000	110.1	
AUXILIARY & OTHER:	1984-85	3,791	0	0.000	77.6	
	1985-86	3,690	0	0.000	81.0	
TOTAL:	1984-85	5,116	0	0.000	183.1	
	1985-86	9,210	0	0.000	191.1	
UNIVERSITY OF ALABAMA						
E & G: (2)	1981-82	3,826,443	148,772	0.054	37,946.9	1
(OTHER THAN PROF HLTH)	1982-83	3,838,519	170,396	0.056	36,496.1	1
	1983-84	3,847,289	165,194	0.054	39,492.2	1
	1984-85	3,847,289	129,277	0.039	45,539.2	1
	1985-86	3,119,154	109,151	0.035	40,430.2	1
E & G:	1981-82	117,729	1,915	0.016	2,428.7	
(PROF HLTH)	1982-83	117,729	1,952	0.017	2,666.2	
	1983-84	117,729	1,984	0.017	2,809.9	
	1984-85	117,729	1,825	0.016	2,661.7	
	1985-86	110,599	3,138	0.029	2,352.1	
AUXILIARY & OTHER:	1981-82	2,247,982	93,400	0.042	25,471.2	
	1982-83	2,329,814	87,780	0.038	26,449.6	
	1983-84	2,222,892	93,419	0.042	25,555.1	
	1984-85	2,222,892	104,234	0.047	21,585.3	
	1985-86	2,222,892	108,435	0.049	20,300.7	
TOTAL:	1981-82	5,992,074	239,087	0.040	64,946.8	2
	1982-83	5,485,262	259,944	0.047	65,611.9	2
	1983-84	5,387,830	250,599	0.040	67,851.2	2
	1984-85	5,387,830	226,336	0.042	69,786.2	2
	1985-86	5,452,555	220,744	0.040	71,083.0	2

AL ENERGY MBTU- 4 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
360	0.272	360	0.272	$8,950	$6.761		
376	0.068	376	0.068	$9,193	$1.665		
263	0.070	263	0.070	$6,395	$1.740		
277	0.075	277	0.075	$6,768	$1.834		
625	0.122	625	0.122	$15,353	$3.040	2,018	2,441
652	0.071	652	0.071	$15,961	$1.733	1,847	2,332
6,478	0.042	299,250	0.096	$2,488,326	$0.796		
4,598	0.041	294,984	0.097	$2,411,813	$0.794		
4,826	0.044	298,020	0.098	$2,371,858	$0.844		
5,471	0.051	275,748	0.090	$2,792,769	$0.916		
5,341	0.053	274,492	0.088	$2,965,684	$0.931		
8,292	0.070	10,287	0.087	$142,037	$1.206		
9,102	0.077	11,054	0.094	$147,297	$1.251		
9,573	0.081	11,359	0.098	$169,322	$1.438		
9,087	0.077	10,912	0.093	$172,106	$1.463		
8,030	0.078	11,100	0.101	$150,644	$1.363		
6,959	0.039	180,359	0.080	$1,363,718	$0.607		
0,299	0.039	178,007	0.076	$1,535,876	$0.659		
7,245	0.039	180,664	0.081	$1,637,611	$0.737		
3,492	0.033	177,926	0.080	$1,693,686	$0.762		
9,307	0.031	177,742	0.080	$1,640,908	$0.738		
1,728	0.041	480,815	0.089	$3,914,081	$0.726	2,007	1,941
3,999	0.041	483,965	0.088	$4,094,986	$0.747	2,977	1,796
1,644	0.043	490,243	0.091	$4,378,791	$0.813	3,296	1,860
8,250	0.044	464,586	0.084	$4,650,632	$0.845	2,708	1,909
2,677	0.045	443,421	0.085	$4,757,286	$0.872	2,586	1,948

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SENIOR INSTITUTIONS

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTRI (MEGA WATT-HRS)	(0
UNIV OF ALABAMA - BHM						
E & G:	1981-82	1,115,635	100,178	0.090	29,209.3	
(OTHER THAN PROF HLTH)	1982-83	1,074,804	105,415	0.098	33,550.1	1
	1983-84	1,329,826	116,496	0.088	33,165.7	1
	1984-85	1,500,400	137,146	0.091	39,313.2	1
	1985-86	1,526,429	116,857	0.077	44,552.0	1
E & G:	1981-82	1,687,852	229,160	0.136	54,222.0	1
(PROF HLTH)	1982-83	1,701,160	220,254	0.134	70,423.2	2
	1983-84	1,744,681	209,327	0.120	58,362.1	1
	1984-85	1,367,907	235,857	0.150	64,762.0	2
	1985-86	1,800,824	263,939	0.147	76,134.0	2
HOSPITAL:	1981-82	1,150,091	166,670	0.144	57,189.3	1
	1982-83	1,170,615	207,046	0.177	68,691.0	2
	1983-84	1,202,290	170,973	0.142	64,429.3	2
	1984-85	1,202,290	196,087	0.163	71,643.3	2
	1985-86	1,227,187	212,407	0.173	73,616.5	2
AUXILIARY & OTHER:	1981-82	1,045,978	39,682	0.021	8,646.3	
	1982-83	1,013,464	43,030	0.024	11,640.0	
	1983-84	1,025,980	30,412	0.021	9,990.2	
	1984-85	1,025,980	39,061	0.021	10,530.5	
	1985-86	1,990,005	37,451	0.019	10,200.3	
TOTAL:	1981-82	5,007,556	535,626	0.092	149,266.9	5
	1982-83	5,760,123	583,753	0.101	184,305.3	6
	1983-84	6,096,777	535,208	0.088	165,930.3	5
	1984-85	6,096,577	608,151	0.100	186,269.0	6
	1985-86	6,483,725	630,654	0.097	204,503.0	6

AL ENERGY MBTU- (4 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
9,721	0.059	199,899	0.179	$2,246,110	$2.013		
4,541	0.107	219,956	0.205	$2,720,144	$2.531		
3,228	0.086	229,724	0.174	$3,027,605	$2.297		
4,215	0.089	271,361	0.181	$3,346,465	$2.230		
2,100	0.100	260,937	0.176	$3,410,260	$2.239		
5,114	0.110	414,282	0.245	$4,507,536	$2.671		
8,425	0.141	468,679	0.276	$5,383,724	$3.165		
9,248	0.114	498,575	0.284	$5,453,655	$3.126		
1,097	0.141	456,954	0.291	$5,799,155	$3.641		
9,922	0.144	523,861	0.291	$6,313,017	$3.507		
5,244	0.169	361,922	0.313	$4,112,773	$3.551		
4,511	0.290	441,557	0.377	$5,252,158	$4.487		
9,931	0.183	390,904	0.325	$5,229,126	$4.349		
4,659	0.293	440,746	0.367	$5,301,953	$4.476		
1,327	0.285	443,734	0.378	$5,670,192	$4.627		
9,518	0.016	69,120	0.037	$774,525	$0.420		
9,742	0.022	82,780	0.044	$1,022,474	$0.564		
4,107	0.019	72,519	0.040	$1,013,695	$0.555		
5,951	0.020	75,012	0.041	$1,046,044	$0.573		
5,097	0.018	72,548	0.038	$990,195	$0.513		
9,597	0.088	1,045,223	0.180	$11,640,946	$2.004	2,887	1,941
9,218	0.109	1,212,971	0.211	$14,378,500	$2.496	2,977	1,796
4,313	0.093	1,101,721	0.181	$14,723,481	$2.415	3,296	1,860
5,922	0.104	1,244,873	0.204	$15,483,617	$2.540	2,708	1,909
8,446	0.108	1,329,190	0.205	$16,399,672	$2.529	2,584	1,948

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INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELEC (MEGA WATT-HRS)
UNIV OF ALABAMA - HUNTSVILLE					
E & G:	1981-82	613,057	11,564	0.019	10,631.9
(OTHER THAN PROF MLTH)	1982-83	616,329	10,864	0.018	10,355.0
	1983-84	616,013	11,329	0.018	10,871.6
	1984-85	616,013	10,754	0.017	11,781.8
	1985-86	756,515	13,633	0.018	12,375.3
E & G:	1981-82	62,506	1,035	0.017	1,497.1
(PROF MLTH)	1982-83	61,414	762	0.012	1,306.5
	1983-84	61,414	741	0.012	1,391.3
	1984-85	61,414	677	0.011	1,396.2
	1985-86	64,418	798	0.012	1,257.4
AUXILIARY & OTHER:	1981-82	178,744	8,442	0.049	1,787.7
	1982-83	207,211	9,937	0.035	2,372.6
	1983-84	313,009	11,939	0.038	2,929.1
	1984-85	313,009	12,326	0.039	2,383.9
	1985-86	300,063	9,921	0.033	2,760.8
TOTAL:	1981-82	851,307	21,041	0.025	13,826.7
	1982-83	965,134	21,563	0.022	14,034.1
	1983-84	991,236	24,009	0.024	15,192.0
	1984-85	991,236	23,757	0.024	15,561.9
	1985-86	1,120,996	24,372	0.022	16,393.6

TRICAL ENERGY (MMBTU- 0.414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
34,297	0.059	47,841	0.070	$662,429	$1.077		
35,352	0.057	46,214	0.075	$673,134	$1.092		
37,116	0.060	48,436	0.079	$692,327	$1.124		
40,223	0.065	50,977	0.083	$754,328	$1.225		
42,249	0.056	55,982	0.074	$848,431	$1.121		
4,804	0.077	5,839	0.093	$79,874	$1.278		
4,468	0.073	5,222	0.085	$76,430	$1.245		
4,750	0.077	5,491	0.089	$80,592	$1.312		
4,767	0.078	5,444	0.089	$82,861	$1.336		
4,293	0.067	5,091	0.079	$80,710	$1.253		
6,103	0.035	14,563	0.084	$149,805	$0.862		
8,108	0.028	18,037	0.063	$298,548	$0.726		
10,000	0.032	21,939	0.070	$239,762	$0.764		
8,189	0.026	20,465	0.065	$219,790	$0.700		
9,426	0.031	19,847	0.064	$251,125	$0.837		
47,204	0.055	68,265	0.080	$892,099	$1.040	3,323	1,539
47,912	0.050	69,475	0.072	$950,132	$0.993	3,850	1,521
51,865	0.052	75,865	0.077	$1,012,081	$1.022	3,726	1,804
53,128	0.054	76,885	0.078	$1,056,179	$1.066	3,182	1,651
55,960	0.050	80,340	0.072	$1,100,274	$1.053	3,068	1,754

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INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTRI (MEGA WATT-HRS)	(3.4
UNIV OF MONTEVALLO						
E & G:	1981-82	547,150	83,745	0.148	5,387.4	
(OTHER THAN PROF MLTH)	1982-83	570,636	79,222	0.137	5,962.7	
	1983-84	606,814	71,560	0.118	6,277.9	
	1984-85	606,814	88,083	0.145	7,044.6	
	1985-86	607,560	71,499	0.118	7,562.6	
AUXILIARY & OTHER:	1981-82	331,925	45,078	0.136	3,000.6	
	1982-83	331,925	42,451	0.128	3,210.7	
	1983-84	331,925	38,452	0.116	3,380.4	
	1984-85	331,925	39,930	0.120	3,563.7	
	1985-86	357,380	38,516	0.108	4,072.2	
TOTAL:	1981-82	899,035	128,823	0.143	8,396.0	
	1982-83	910,561	121,673	0.134	9,173.4	
	1983-84	938,739	110,012	0.117	9,658.3	
	1984-85	938,739	128,021	0.136	10,708.3	
	1985-86	964,931	110,009	0.114	11,634.8	
UNIV OF NORTH ALABAMA						
E & G:	1981-82	784,710	24,520	0.030	9,916.5	
(OTHER THAN PROF MLTH)	1982-83	764,024	24,963	0.033	10,029.8	
	1983-84	780,635	31,190	0.040	11,363.0	
	1984-85	780,635	25,201	0.032	12,493.7	
	1985-86	780,635	21,512	0.028	13,147.6	
AUXILIARY & OTHER:	1981-82	308,264	19,250	0.062	4,453.1	
	1982-83	308,264	18,214	0.059	4,857.7	
	1983-84	295,027	16,259	0.057	4,149.3	
	1984-85	295,027	16,424	0.056	4,492.5	
	1985-86	295,027	15,721	0.053	4,941.6	
TOTAL:	1981-82	1,072,974	45,770	0.043	14,369.6	
	1982-83	1,072,290	43,179	0.040	14,878.0	
	1983-84	1,065,662	47,457	0.045	15,532.3	
	1984-85	1,065,662	41,765	0.039	16,986.2	
	1985-86	1,065,662	37,233	0.035	18,089.2	

AL ENERGY MBTU- 4 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
9,075	0.034	102,020	0.101	$709,360	$1.251		
0,357	0.035	99,579	0.172	$619,024	$1.070		
1,433	0.035	92,993	0.133	$530,413	$0.887		
5,074	0.041	118,157	0.106	$660,690	$1.102		
5,019	0.042	97,310	0.160	$631,216	$1.039		
0,271	0.031	55,349	0.167	$301,962	$1.151		
0,961	0.033	53,612	0.162	$333,310	$1.004		
1,541	0.035	49,993	0.151	$289,913	$0.873		
1,404	0.035	51,422	0.155	$303,506	$0.914		
0,962	0.039	52,412	0.147	$339,082	$0.951		
9,347	0.033	150,170	0.176	$1,091,322	$1.214	2,807	1,941
1,318	0.034	153,191	0.160	$952,342	$1.046	2,977	1,796
2,978	0.035	142,985	0.152	$820,320	$0.882	3,296	1,860
6,550	0.039	164,579	0.175	$972,196	$1.036	2,780	1,989
9,721	0.041	149,730	0.155	$971,090	$1.006	2,506	1,940
3,855	0.040	60,375	0.086	$560,060	$0.806		
4,209	0.045	59,172	0.077	$602,456	$0.789		
0,793	0.050	69,991	0.090	$714,640	$0.915		
2,653	0.055	67,934	0.087	$745,710	$0.955		
4,004	0.057	66,390	0.085	$781,023	$1.002		
5,260	0.049	34,461	0.112	$517,706	$1.031		
4,077	0.048	33,093	0.107	$521,000	$1.044		
4,234	0.050	30,493	0.107	$512,034	$1.095		
5,337	0.054	31,761	0.111	$544,105	$1.200		
6,071	0.059	32,592	0.114	$577,490	$1.325		
9,050	0.040	94,036	0.094	$803,046	$0.875	3,325	1,539
9,004	0.046	92,265	0.004	$924,250	$0.862	3,350	1,521
3,027	0.050	100,404	0.094	$1,026,702	$0.963	3,726	1,004
7,991	0.054	99,696	0.094	$1,009,903	$1.023	3,102	1,651
1,757	0.050	90,990	0.093	$1,159,513	$1.000	3,060	1,754

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INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTR (MEGA WATT-HRS)	D.
UNIV OF SOUTH ALABAMA						
E & G:	1981-82	964,511	86,186	0.060	19,698.2	
(OTHER THAN PROF HLTH)	1982-83	1,010,036	71,984	0.071	21,298.5	
	1983-84	1,010,603	88,496	0.062	23,364.3	
	1984-85	1,109,442	79,753	0.046	21,833.0	
	1985-86	1,160,784	53,254	0.048	21,131.1	
E & G:	1981-82	851,579	83,474	0.095	11,292.0	
(PROF HLTH)	1982-83	851,579	57,817	0.100	9,010.3	
	1983-84	851,579	86,586	0.104	9,009.3	
	1984-85	851,579	30,657	0.100	10,234.7	
	1985-86	854,414	86,134	0.102	7,996.4	
HOSPITAL:	1981-82	844,912	39,730	0.109	13,000.0	
	1982-83	844,912	42,859	0.117	13,031.7	
	1983-84	383,029	47,300	0.124	15,774.5	
	1984-85	420,867	40,292	0.096	14,441.6	
	1985-86	420,421	48,092	0.114	14,091.0	
AUXILIARY & OTHER:	1981-82	575,282	29,548	0.051	9,159.6	
	1982-83	611,742	35,287	0.058	9,838.0	
	1983-84	721,122	35,399	0.049	10,913.2	
	1984-85	783,548	45,474	0.042	13,257.7	
	1985-86	799,018	36,248	0.048	14,715.0	
TOTAL:	1981-82	2,236,294	160,085	0.071	53,941.0	
	1982-83	2,346,269	107,887	0.060	53,987.0	
	1983-84	2,474,335	202,795	0.082	39,081.3	
	1984-85	2,615,428	197,576	0.076	61,767.0	
	1985-86	2,682,557	175,768	0.066	60,755.1	

ICAL ENERGY (MMBTU-414 X MM)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
67,822	0.070	125,352	0.130	$1,249,037	$1.295		
78,719	0.071	144,697	0.142	$1,410,021	$1.383		
79,562	0.070	142,998	0.160	$1,570,687	$1.550		
74,541	0.067	140,294	0.134	$1,304,665	$1.256		
72,210	0.065	125,444	0.113	$1,206,530	$1.160		
30,551	0.110	72,025	0.205	$596,078	$1.695		
30,780	0.080	60,605	0.195	$491,939	$1.960		
31,031	0.080	67,617	0.192	$497,073	$1.983		
34,941	0.099	72,990	0.200	$760,017	$2.184		
27,900	0.077	65,434	0.179	$737,070	$2.000		
47,115	0.129	86,051	0.230	$839,356	$2.300		
47,221	0.129	90,060	0.247	$914,641	$2.507		
59,054	0.141	101,234	0.264	$1,025,530	$2.677		
56,132	0.133	96,424	0.229	$1,052,336	$2.500		
57,649	0.157	105,741	0.252	$1,006,019	$2.303		
31,271	0.054	60,014	0.106	$602,732	$1.040		
33,390	0.055	60,017	0.112	$723,643	$1.183		
37,250	0.052	72,657	0.101	$709,965	$1.095		
45,262	0.062	90,736	0.124	$975,196	$1.329		
50,240	0.069	80,480	0.111	$960,727	$1.292		
184,157	0.082	345,042	0.153	$3,287,223	$1.457	1,640	2,794
184,313	0.079	372,260	0.159	$3,740,284	$1.594	1,906	2,242
291,704	0.082	484,499	0.163	$4,091,213	$1.653	2,081	2,230
210,075	0.081	400,451	0.154	$4,300,298	$1.644	1,650	2,405
207,410	0.077	383,126	0.143	$4,070,254	$1.517	1,343	2,352

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AS OF JUNE 30, 1986

SENIOR INSTITUTIONS

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTRICA (MEGA WATT-HRS)	(M
TOTALS						
E & G:	1981-82	13,820,290	1,047,546	0.076	201,855.5	68
(OTHER THAN PROF HLTH)	1982-83	13,854,204	1,047,898	0.076	212,197.1	72
	1983-84	14,377,363	1,081,486	0.075	223,492.5	76
	1984-85	14,738,802	1,281,602	0.087	252,184.5	84
	1985-86	15,433,023	1,103,506	0.072	270,756.9	92
E & G:	1981-82	2,219,666	265,592	0.120	69,349.8	23
(PROF HLTH)	1982-83	2,231,882	268,785	0.120	83,414.2	28
	1983-84	2,275,403	248,640	0.109	71,646.6	24
	1984-85	2,098,629	276,416	0.132	79,054.6	26
	1985-86	2,329,365	304,029	0.131	87,740.2	29
HOSPITALS:	1981-82	1,523,003	206,416	0.136	70,989.3	24
	1982-83	1,535,527	249,905	0.163	82,522.7	28
	1983-84	1,585,319	218,353	0.138	80,194.8	27
	1984-85	1,623,157	236,379	0.146	88,104.9	30
	1985-86	1,647,608	260,499	0.158	90,508.3	30
AUXILIARY & OTHER:	1981-82	9,336,138	571,436	0.061	92,668.9	31
	1982-83	9,631,813	572,735	0.059	96,940.9	33
	1983-84	9,674,161	573,131	0.059	100,836.0	34
	1984-85	9,693,936	566,052	0.058	100,213.2	34
	1985-86	10,352,467	462,414	0.045	104,174.6	35
TOTAL: (3)	1981-82	26,899,097	2,090,990	0.078	434,863.5	1,48
	1982-83	27,253,426	2,139,323	0.078	475,074.9	1,62
	1983-84	27,912,246	2,121,610	0.076	476,169.9	1,62
	1984-85	28,154,524	2,360,449	0.084	519,557.2	1,77
	1985-86	29,762,463	2,130,448	0.072	553,180.0	1,88

NOTES: (1) GREATER GSF FIGURES ARE DUE TO FILING OF FACILITY INVENTORY - FIRST SINCE 1979
NOTES: (2) INCLUDES C.E.D.C.
NOTES: (3) HEATING AND COOLING DEGREE-DAY VALUES FOR TOTALS
ARE ARITHMETIC AVERAGES OF INSTITUTIONAL VALUES

-33-

L ENERGY BTU- & MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
,135	0.050	1,736,681	0.126	$14,860,958	$1.075		
,441	0.052	1,772,339	0.128	$16,442,631	$1.187		
,003	0.053	1,844,489	0.128	$17,356,796	$1.207		
,958	0.058	2,142,560	0.145	$19,947,173	$1.353		
,384	0.060	2,027,870	0.131	$20,149,222	$1.306		
,760	0.107	502,352	0.226	$5,325,525	$2.399		
,776	0.128	553,561	0.248	$6,299,410	$2.822		
,601	0.107	493,241	0.217	$6,400,042	$2.813		
,892	0.129	546,308	0.260	$6,731,419	$3.208		
,545	0.129	603,574	0.259	$7,281,449	$3.126		
,357	0.159	448,773	0.295	$4,952,131	$3.252		
,732	0.183	531,637	0.346	$6,166,819	$4.016		
,785	0.173	492,138	0.310	$6,254,654	$3.945		
,790	0.185	537,169	0.331	$6,434,283	$3.964		
,995	0.188	569,494	0.346	$6,764,211	$4.105		
,372	0.034	897,808	0.095	$6,947,285	$0.744		
,956	0.034	903,691	0.094	$7,944,619	$0.825		
,254	0.036	917,385	0.095	$8,426,580	$0.871		
,128	0.035	908,180	0.094	$8,655,657	$0.893		
,652	0.034	818,066	0.079	$8,570,111	$0.828		
,624	0.055	3,575,614	0.133	$32,085,899	$1.193	2,532	2,109
,906	0.060	3,761,229	0.138	$36,853,479	$1.352	2,694	1,913
,644	0.058	3,747,254	0.134	$38,438,082	$1.377	2,994	1,989
,768	0.063	4,134,217	0.147	$41,768,532	$1.484	2,448	2,075
,557	0.063	4,019,005	0.135	$42,764,993	$1.437	2,402	2,105

Two-Year Institutions

Junior Colleges

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
AS OF JUNE 30, 1986

JUNIOR COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECT (MEGA WATT-HRS)	
ALEXANDER CITY ST J C						
E & G	1981-82	144,619	3,510	0.024	1,472.0	
	1982-83	144,619	5,346	0.036	1,491.1	
	1983-84	145,219	4,993	0.034	1,573.5	
	1984-85	145,219	5,525	0.038	1,548.7	
	1985-86	150,672	4,983	0.033	1,524.3	
AUXILIARY & OTHER	1981-82	1,150	0	0.000	0.0	
	1982-83	1,150	0	0.000	0.0	
	1983-84	2,550	0	0.000	0.0	
	1984-85	2,550	0	0.000	0.0	
	1985-86	3,772	0	0.000	0.0	
TOTAL	1981-82	147,769	3,510	0.024	1,472.0	
	1982-83	147,769	5,346	0.036	1,491.1	
	1983-84	147,769	4,993	0.034	1,573.5	
	1984-85	147,769	5,525	0.037	1,548.7	
	1985-86	154,444	4,983	0.032	1,524.3	
BISHOP ST JR COLLEGE						
E & G	1981-82	143,098	28,056	0.195	1,465.3	
	1982-83	161,213	21,839	0.135	1,465.5	
	1983-84	161,213	17,348	0.109	1,502.8	
	1984-85	161,213	9,644	0.060	1,610.7	
	1985-86	139,793	8,214	0.051	1,617.5	
AUXILIARY & OTHER	1981-82	5,489	572	0.104	28.7	
	1982-83	4,260	445	0.104	29.9	
	1983-84	4,260	358	0.084	30.7	
	1984-85	4,260	197	0.046	32.9	
	1985-86	5,680	168	0.030	33.0	
TOTAL	1981-82	149,387	28,628	0.192	1,494.0	
	1982-83	165,473	22,284	0.135	1,495.4	
	1983-84	165,473	17,906	0.108	1,533.5	
	1984-85	165,473	9,841	0.059	1,643.6	
	1985-86	165,473	8,382	0.051	1,650.5	

TICAL ENERGY (MMBTU- .414 X MWH)		TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
5,025	0.034	8,535	0.058	$111,512	$0.761		
5,091	0.035	10,437	0.071	$133,341	$0.909		
5,372	0.037	10,365	0.071	$142,941	$0.984		
5,287	0.036	10,012	0.074	$143,531	$0.988		
5,284	0.035	10,107	0.067	$141,521	$0.939		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
5,025	0.034	8,535	0.058	$111,512	$0.755	2,152	2,439
5,091	0.034	10,437	0.071	$133,341	$0.902	2,140	2,193
5,372	0.036	10,365	0.070	$142,941	$0.967	2,412	2,239
5,287	0.036	10,012	0.073	$143,531	$0.971	1,913	2,407
5,284	0.034	10,107	0.065	$141,521	$0.916	2,054	2,398
4,798	0.033	32,854	0.228	$242,276	$1.684		
5,003	0.031	26,842	0.166	$218,183	$1.353		
5,131	0.032	22,479	0.141	$207,480	$1.286		
5,499	0.034	15,143	0.094	$166,062	$1.030		
5,522	0.035	13,736	0.086	$168,374	$1.054		
98	0.018	670	0.124	$4,944	$0.914		
102	0.024	547	0.128	$4,456	$1.046		
105	0.025	463	0.109	$4,237	$0.995		
112	0.026	309	0.073	$3,392	$0.796		
113	0.020	281	0.049	$3,436	$0.605		
4,896	0.033	33,524	0.225	$247,220	$1.636	1,640	2,794
5,105	0.031	27,389	0.166	$222,639	$1.345	1,906	2,242
5,235	0.032	23,141	0.140	$211,637	$1.279	2,081	2,230
5,611	0.034	15,452	0.093	$169,454	$1.024	1,650	2,485
5,635	0.034	14,017	0.085	$171,810	$1.038	1,543	2,552

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
AS OF JUNE 30, 1986

JUNIOR COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTRICAL ENERGY (MEGA WATT-HRS)	(MMBTU- 3.414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
BREWER ST JR COLLEGE													
E & G	1981-82	89,220	4,627	0.052	811.0	2,771	0.031	7,398	0.083	$73,822	$0.827		
	1982-83	89,220	4,306	0.048	809.6	2,764	0.031	7,070	0.079	$81,153	$0.910		
	1983-84	101,720	5,546	0.055	882.4	3,013	0.030	8,559	0.084	$104,876	$1.031		
	1984-85	101,720	5,451	0.054	764.3	2,609	0.026	8,260	0.081	$125,520	$1.234		
	1985-86	102,519	5,062	0.049	871.7	2,976	0.029	8,038	0.078	$101,767	$0.993		
AUXILIARY & OTHER	1981-82	2,132	0	0.000	0.0	0	0.000	0	0.000	$0	$0.000		
	1982-83	2,132	0	0.000	0.0	0	0.000	0	0.000	$0	$0.000		
	1983-84	2,132	0	0.000	0.0	0	0.000	0	0.000	$0	$0.000		
	1984-85	2,132	45	0.021	118.9	406	0.190	451	0.212	$10,261	$4.813		
	1985-86	1,333	0	0.000	0.0	0	0.000	0	0.000	$0	$0.000		
TOTAL	1981-82	91,352	4,627	0.051	811.0	2,771	0.030	7,398	0.081	$73,822	$0.808	2,807	1,941
	1982-83	91,352	4,306	0.047	809.6	2,764	0.030	7,070	0.077	$81,153	$0.888	2,977	1,796
	1983-84	103,852	5,546	0.053	882.4	3,013	0.029	8,559	0.082	$104,876	$1.010	3,296	1,869
	1984-85	103,852	5,496	0.053	883.2	3,015	0.029	8,711	0.084	$135,781	$1.307	2,708	1,989
	1985-86	103,852	5,062	0.049	871.7	2,976	0.029	8,038	0.077	$101,767	$0.980	2,568	1,948
CHATTHOOCHEE VY ST C C													
E & G	1981-82	71,883	1,123	0.016	1,812.0	6,184	0.086	7,309	0.102	$110,587	$1.540		
	1982-83	73,445	126	0.002	1,764.4	6,024	0.082	6,150	0.084	$120,904	$1.646		
	1983-84	73,445	169	0.002	1,996.4	6,816	0.093	6,985	0.095	$130,988	$1.783		
	1984-85	73,445	82	0.001	2,145.9	7,326	0.100	7,408	0.101	$145,188	$1.977		
	1985-86	87,988	42	.000	1,942.6	6,632	0.075	6,674	0.076	$140,136	$1.593		
AUXILIARY & OTHER	1981-82	11,767	0	0.000	295.0	1,007	0.086	1,007	0.086	$16,489	$1.394		
	1982-83	11,007	0	0.000	61.0	208	0.019	208	0.019	$4,045	$0.364		
	1983-84	11,007	0	0.000	69.0	236	0.021	236	0.021	$4,361	$0.396		
	1984-85	11,007	0	0.000	74.1	253	0.023	253	0.023	$4,819	$0.438		
	1985-86	0	0		67.1	229		229		$4,632			
TOTAL	1981-82	83,570	1,123	0.013	2,107.0	7,193	0.086	8,316	0.100	$126,996	$1.520	2,272	2,324
	1982-83	84,452	126	0.001	1,825.4	6,232	0.074	6,358	0.075	$124,989	$1.479	2,166	2,252
	1983-84	84,452	169	0.002	2,065.4	7,051	0.083	7,220	0.085	$135,341	$1.603	2,469	2,382
	1984-85	84,452	82	0.001	2,220.0	7,579	0.090	7,661	0.091	$150,007	$1.776	2,018	2,441
	1985-86	87,988	42	.000	2,009.7	6,861	0.078	6,903	0.078	$144,768	$1.645	1,847	2,532

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
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JUNIOR COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTRICAL ENERGY (MEGA WATT-HRS)	(MMBTU-3.414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
JEFFERSON DAVIS ST J C													
E & G	1981-82	93,343	2,319	0.025	1,130.4	3,859	0.041	6,178	0.066	$92,855	$0.995		
	1982-83	117,743	2,364	0.020	1,199.8	4,096	0.035	6,460	0.055	$106,557	$0.905		
	1983-84	126,143	3,239	0.026	1,427.2	4,872	0.039	8,111	0.064	$130,210	$1.032		
	1984-85	126,143	2,979	0.024	1,362.2	4,651	0.037	7,630	0.060	$125,629	$0.996		
	1985-86	131,412	2,630	0.020	1,333.4	4,552	0.035	7,182	0.055	$119,011	$0.906		
AUXILIARY & OTHER	1981-82	0	0	0.000	0.0	0	0.000	0	0.000	$0	0.000		
	1982-83	0	0	0.000	0.0	0	0.000	0	0.000	$0	0.000		
	1983-84	0	0	0.000	0.0	0	0.000	0	0.000	$0	0.000		
	1984-85	0	0	0.000	0.0	0	0.000	0	0.000	$0	0.000		
	1985-86	0	0	0.000	0.0	0	0.000	0	0.000	$0	0.000		
TOTAL	1981-82	93,343	2,319	0.025	1,130.4	3,859	0.041	6,178	0.066	$92,855	$0.995	1,648	2,794
	1982-83	117,743	2,364	0.020	1,199.8	4,096	0.035	6,460	0.055	$106,557	$0.905	1,906	2,242
	1983-84	126,143	3,239	0.026	1,427.2	4,872	0.039	8,111	0.064	$130,210	$1.032	2,081	2,230
	1984-85	126,143	2,979	0.024	1,362.2	4,651	0.037	7,630	0.060	$125,629	$0.996	1,638	2,485
	1985-86	131,412	2,630	0.020	1,333.4	4,552	0.035	7,182	0.055	$119,011	$0.906	1,543	2,552
ENTERPRISE ST JR COLLEGE													
E & G	1981-82	126,159	7,169	0.057	2,164.3	7,389	0.059	14,558	0.115	$140,829	$1.100		
	1982-83	115,520	6,504	0.056	1,889.6	6,451	0.056	12,955	0.112	$157,332	$1.364		
	1983-84	115,520	5,670	0.049	1,924.7	6,571	0.057	12,241	0.106	$151,734	$1.313		
	1984-85	115,520	5,616	0.049	1,266.6	4,324	0.037	9,940	0.086	$132,351	$1.146		
	1985-86	115,520	4,772	0.041	1,389.8	4,745	0.041	9,517	0.082	$122,303	$1.059		
AUXILIARY & OTHER	1981-82	4,478	254	0.057	76.7	262	0.059	516	0.115	$5,274	$1.100		
	1982-83	11,112	231	0.021	67.0	229	0.021	460	0.041	$5,542	$0.499		
	1983-84	11,112	201	0.018	68.2	233	0.021	434	0.039	$5,384	$0.485		
	1984-85	11,112	199	0.018	50.3	172	0.015	371	0.033	$4,681	$0.421		
	1985-86	11,112	169	0.015	40.5	138	0.012	307	0.028	$4,342	$0.391		
TOTAL	1981-82	130,632	7,423	0.057	2,241.0	7,651	0.059	15,074	0.115	$154,103	$1.180	2,152	2,439
	1982-83	126,632	6,735	0.053	1,956.6	6,680	0.053	13,415	0.106	$163,074	$1.288	2,140	2,193
	1983-84	126,632	5,871	0.046	1,992.9	6,804	0.054	12,675	0.100	$157,118	$1.241	2,412	2,239
	1984-85	126,632	5,815	0.046	1,316.9	4,496	0.036	10,311	0.081	$137,032	$1.082	1,913	2,487
	1985-86	126,632	4,941	0.039	1,430.4	4,883	0.039	9,824	0.078	$126,643	$1.000	2,054	2,398

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
AS OF JUNE 30, 1986

JUNIOR COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTRI (MEGA WATT-HRS)	(3.4
FAULKNER ST JR COLLEGE						
E & G	1981-82	104,636	2,393	0.023	952.8	
	1982-83	95,069	3,254	0.034	957.3	
	1983-84	133,000	2,896	0.022	1,098.9	
	1984-85	95,069	2,330	0.025	1,150.1	
	1985-86	134,476	2,813	0.021	1,442.6	
AUXILIARY & OTHER	1981-82	97,726	2,194	0.022	743.8	
	1982-83	108,095	2,964	0.027	845.8	
	1983-84	78,964	2,544	0.036	919.2	
	1984-85	108,095	2,341	0.021	442.3	
	1985-86	69,488	2,304	0.033	786.4	
TOTAL	1981-82	202,362	4,497	0.022	1,696.6	
	1982-83	203,964	6,218	0.030	1,803.1	
	1983-84	203,964	5,440	0.027	2,018.1	
	1984-85	203,964	4,671	0.023	1,612.4	
	1985-86	203,964	5,119	0.025	2,149.2	
PATRICK HENRY ST J C						
E & G	1981-82	81,329	1,950	0.024	459.1	
	1982-83	81,329	1,634	0.020	332.6	
	1983-84	85,039	2,029	0.024	452.5	
	1984-85	85,039	1,835	0.022	479.8	
	1985-86	85,256	1,531	0.018	467.5	
AUXILIARY & OTHER	1981-82	1,344	39	0.029	9.2	
	1982-83	1,344	34	0.025	6.8	
	1983-84	2,419	41	0.017	9.2	
	1984-85	2,419	38	0.016	9.8	
	1985-86	2,256	22	0.010	9.6	
TOTAL	1981-82	82,673	1,989	0.024	459.3	
	1982-83	82,673	1,668	0.020	339.4	
	1983-84	87,458	2,061	0.024	461.7	
	1984-85	87,458	1,873	0.021	488.8	
	1985-86	87,512	1,553	0.018	477.0	

CAL ENERGY MMBTU- (14 X MAH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
3,253	0.031	5,646	0.054	$84,477	$0.807		
3,248	0.034	6,522	0.069	$94,376	$0.993		
3,752	0.028	6,648	0.050	$108,145	$0.813		
3,926	0.041	6,254	0.066	$142,881	$1.502		
4,925	0.037	7,738	0.058	$147,242	$1.093		
2,539	0.026	4,643	0.048	$67,755	$0.693		
2,888	0.027	5,852	0.054	$76,644	$0.704		
3,138	0.044	5,682	0.080	$86,498	$1.219		
1,578	0.014	3,919	0.036	$58,159	$0.534		
2,412	0.035	4,718	0.068	$69,913	$1.006		
5,792	0.029	10,289	0.051	$152,232	$0.752	1,640	2,794
6,156	0.030	12,374	0.061	$171,020	$0.838	1,906	2,242
6,090	0.034	12,330	0.069	$194,643	$0.954	2,081	2,230
5,505	0.027	10,176	0.050	$200,960	$0.985	1,458	2,485
7,337	0.036	12,454	0.061	$217,155	$1.065	1,543	2,552
1,337	0.019	3,407	0.043	$43,940	$0.540		
1,135	0.014	2,769	0.034	$41,507	$0.511		
1,545	0.018	3,545	0.042	$53,369	$0.627		
1,635	0.019	3,470	0.041	$58,740	$0.691		
1,596	0.019	3,127	0.037	$53,826	$0.631		
81	0.023	70	0.052	$890	$0.662		
23	0.017	57	0.043	$848	$0.631		
81	0.013	72	0.030	$1,090	$0.451		
33	0.014	71	0.030	$1,200	$0.496		
33	0.014	55	0.024	$1,047	$0.464		
1,568	0.019	3,557	0.043	$44,830	$0.542	1,640	2,794
1,159	0.014	2,827	0.034	$42,435	$0.513	1,906	2,242
1,574	0.018	3,637	0.042	$54,450	$0.628	2,081	2,230
1,669	0.019	3,542	0.040	$59,940	$0.685	1,458	2,485
1,629	0.019	3,182	0.036	$54,073	$0.627	1,543	2,552

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
AS OF JUNE 30, 1986

JUNIOR COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTR (MEGA WATT-HRS)	D
JEFFERSON ST JR COLLEGE						
E & G	1981-82	447,384	19,907	0.044	6,174.2	
	1982-83	452,583	22,555	0.050	5,707.3	
	1983-84	465,445	25,928	0.056	7,415.0	
	1984-85	465,665	21,269	0.046	6,786.6	
	1985-86	468,982	16,679	0.036	5,804.2	
AUXILIARY & OTHER	1981-82	41,930	0	0.000	0.0	
	1982-83	41,930	0	0.000	0.0	
	1983-84	41,930	0	0.000	0.0	
	1984-85	41,930	0	0.000	0.0	
	1985-86	38,701	0	0.000	0.0	
TOTAL	1981-82	489,324	19,907	0.041	6,174.2	
	1982-83	494,441	22,555	0.046	5,707.3	
	1983-84	507,683	25,928	0.051	7,415.0	
	1984-85	507,683	21,269	0.042	6,786.6	
	1985-86	507,683	16,679	0.033	5,804.2	
NORTHEAST ALABAMA ST J C						
E & G	1981-82	179,195	11,059	0.062	2,818.4	
	1982-83	179,195	8,360	0.048	1,680.9	
	1983-84	179,195	9,945	0.055	1,795.6	
	1984-85	179,195	8,022	0.045	1,774.0	
	1985-86	189,210	6,270	0.033	1,694.8	
AUXILIARY & OTHER	1981-82	4,659	0	0.000	0.0	
	1982-83	4,659	0	0.000	0.0	
	1983-84	4,659	0	0.000	0.0	
	1984-85	4,659	0	0.000	0.0	
	1985-86	4,659	0	0.000	0.0	
TOTAL	1981-82	183,854	11,059	0.060	2,818.4	
	1982-83	183,854	8,360	0.047	1,680.9	
	1983-84	183,854	9,945	0.054	1,795.6	
	1984-85	183,854	8,022	0.044	1,774.0	
	1985-86	193,877	6,270	0.032	1,694.8	

ICAL ENERGY (MMBTU- 414 X MMI)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
21,079	0.047	40,984	0.092	$458,155	$1.024		
19,485	0.043	42,040	0.093	$440,310	$1.035		
25,315	0.034	51,243	0.110	$595,075	$1.280		
22,894	0.049	44,165	0.095	$555,027	$1.192		
19,816	0.042	36,493	0.078	$501,750	$1.070		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
21,079	0.045	40,984	0.084	$458,155	$0.934	2,807	1,941
19,485	0.039	42,040	0.085	$440,310	$0.948	2,977	1,796
25,315	0.030	51,243	0.101	$595,075	$1.174	3,296	1,860
22,894	0.045	44,165	0.087	$555,027	$1.093	2,788	1,909
19,816	0.039	36,493	0.072	$501,750	$0.988	2,348	1,948
6,091	0.038	17,930	0.100	$133,232	$0.866		
5,766	0.032	14,326	0.080	$140,180	$0.782		
6,130	0.034	16,073	0.090	$139,642	$0.891		
6,054	0.034	14,078	0.079	$149,741	$0.836		
5,784	0.031	12,054	0.064	$139,997	$0.748		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
6,091	0.037	17,930	0.098	$133,232	$0.844	3,325	1,539
5,766	0.031	14,326	0.078	$140,180	$0.762	3,350	1,521
6,130	0.033	16,073	0.087	$139,642	$0.868	3,726	1,804
6,054	0.033	14,078	0.077	$149,741	$0.814	3,182	1,651
5,784	0.030	12,054	0.062	$139,997	$0.722	3,048	1,754

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
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JUNIOR COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTRICA (MEGA WATT-HRS)	(MM 3.414
NORTHWEST ALABAMA ST J C						
E & G	1981-82	144,497	9,718	0.059	1,066.4	3
	1982-83	156,757	8,591	0.055	985.3	3
	1983-84	157,643	10,873	0.069	1,248.3	4
	1984-85	157,643	10,007	0.049	1,325.9	4
	1985-86	157,203	8,139	0.052	1,455.4	4
AUXILIARY & OTHER	1981-82	7,190	501	0.070	54.9	
	1982-83	12,681	443	0.035	50.8	
	1983-84	11,795	560	0.047	64.3	
	1984-85	11,795	556	0.047	60.3	
	1985-86	12,235	410	0.034	75.0	
TOTAL	1981-82	171,695	10,213	0.059	1,121.3	3
	1982-83	169,438	9,034	0.053	1,036.1	3
	1983-84	169,438	11,433	0.067	1,312.6	4
	1984-85	169,438	11,063	0.067	1,394.2	4
	1985-86	169,438	8,551	0.050	1,530.3	5
SHEAD ST JR COLLEGE						
E & G	1981-82	115,732	3,376	0.029	1,782.4	5
	1982-83	151,675	3,867	0.022	1,545.5	5
	1983-84	164,179	3,919	0.024	1,492.6	5
	1984-85	164,179	4,163	0.025	1,899.0	6
	1985-86	174,328	3,665	0.021	1,868.7	6
AUXILIARY & OTHER	1981-82	80,111	1,547	0.019	789.7	2
	1982-83	52,160	1,109	0.021	661.0	2
	1983-84	50,651	1,182	0.023	679.8	2
	1984-85	50,651	540	0.011	417.9	1
	1985-86	46,477	376	0.008	342.9	1
TOTAL	1981-82	203,843	4,923	0.024	2,412.1	8
	1982-83	203,843	4,376	0.021	2,207.3	7
	1983-84	214,824	5,101	0.024	2,372.4	8
	1984-85	214,824	4,703	0.022	2,307.9	7
	1985-86	220,805	4,041	0.018	2,211.6	7

L ENERGY TU- X MM)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
,641	0.022	13,353	0.081	$105,988	$0.644		
,344	0.021	11,955	0.076	$101,521	$0.648		
,262	0.027	15,135	0.096	$139,109	$0.882		
,527	0.029	15,334	0.097	$139,669	$0.886		
,969	0.032	18,102	0.083	$144,790	$0.921		
187	0.026	698	0.096	$5,456	$0.750		
173	0.014	614	0.049	$5,229	$0.412		
220	0.019	780	0.066	$7,169	$0.608		
233	0.020	789	0.067	$7,199	$0.610		
254	0.021	674	0.055	$7,462	$0.610		
,020	0.022	14,041	0.082	$111,344	$0.648	3,325	1,539
,537	0.021	12,571	0.074	$106,730	$0.630	3,350	1,521
,481	0.026	15,914	0.094	$146,278	$0.863	3,726	1,804
,749	0.028	16,128	0.095	$146,868	$0.867	3,182	1,651
,225	0.031	13,776	0.081	$152,268	$0.899	3,068	1,754
,012	0.050	9,188	0.079	$120,232	$1.039		
,274	0.035	8,543	0.056	$127,523	$0.841		
,779	0.035	9,698	0.059	$129,246	$0.787		
,458	0.039	10,615	0.065	$142,511	$0.868		
,980	0.037	10,045	0.058	$152,742	$0.876		
,429	0.027	3,978	0.045	$47,391	$0.538		
,259	0.043	3,368	0.065	$47,703	$0.914		
,321	0.044	3,583	0.069	$51,429	$1.015		
,427	0.028	1,967	0.039	$31,158	$0.615		
,171	0.025	1,547	0.033	$25,182	$0.542		
,235	0.040	13,158	0.065	$167,623	$0.822	3,325	1,539
,536	0.037	11,912	0.058	$175,226	$0.849	3,350	1,521
,099	0.038	13,200	0.061	$180,475	$0.841	3,726	1,804
,879	0.037	12,582	0.059	$179,641	$0.898	3,182	1,651
,550	0.034	11,391	0.052	$177,924	$0.866	3,068	1,754

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
AS OF JUNE 30, 1986

JUNIOR COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	EL (MEGA WATT-HRS)
SOUTHERN UNION ST J C					
E & G	1981-82	180,599	5,176	0.029	1,685.7
	1982-83	184,911	5,260	0.028	1,763.8
	1983-84	188,334	5,626	0.030	1,832.9
	1984-85	188,334	6,085	0.032	1,698.9
	1985-86	171,859	5,046	0.029	1,612.1
AUXILIARY & OTHER	1981-82	34,565	686	0.020	497.3
	1982-83	35,182	540	0.015	480.2
	1983-84	35,182	599	0.015	461.8
	1984-85	35,182	581	0.017	445.4
	1985-86	47,265	530	0.011	423.8
TOTAL	1981-82	215,164	5,862	0.027	2,183.0
	1982-83	220,093	5,800	0.026	2,244.0
	1983-84	223,436	6,135	0.027	2,294.7
	1984-85	223,436	6,666	0.030	2,146.3
	1985-86	219,124	5,576	0.025	2,035.1
LURLEEN B WALLACE ST J C					
E & G	1981-82	72,799	1,340	0.018	723.0
	1982-83	84,620	1,481	0.018	946.7
	1983-84	84,620	2,109	0.025	970.4
	1984-85	84,620	1,951	0.023	1,166.5
	1985-86	84,620	1,940	0.023	982.4
AUXILIARY & OTHER	1981-82	27,917	59	0.002	46.1
	1982-83	16,096	45	0.003	60.4
	1983-84	16,096	63	0.004	61.9
	1984-85	16,096	55	0.003	74.4
	1985-86	16,096	68	0.004	62.6
TOTAL	1981-82	100,716	1,399	0.014	769.1
	1982-83	100,716	1,526	0.015	1,007.1
	1983-84	100,716	2,174	0.022	1,032.3
	1984-85	100,716	2,006	0.020	1,240.9
	1985-86	100,716	2,008	0.020	1,045.0

CTRICAL ENERGY (MMBTU-3.414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
5,402	0.030	10,650	0.059	$143,480	$0.794		
6,022	0.033	11,202	0.061	$170,230	$0.964		
6,250	0.033	11,804	0.063	$187,924	$0.998		
5,739	0.030	11,024	0.063	$180,656	$1.002		
5,504	0.032	10,550	0.061	$177,159	$1.031		
1,498	0.049	2,304	0.069	$41,650	$1.205		
1,439	0.047	2,179	0.062	$39,255	$1.110		
1,377	0.045	2,086	0.059	$39,102	$1.116		
1,389	0.043	2,170	0.062	$40,773	$1.162		
1,444	0.031	1,974	0.042	$26,330	$0.769		
7,100	0.033	13,042	0.061	$185,130	$0.860	2,272	2,324
7,661	0.035	13,461	0.061	$217,493	$0.989	2,166	2,252
7,834	0.035	13,969	0.063	$227,106	$1.016	2,469	2,382
7,327	0.033	13,993	0.063	$229,429	$1.027	2,010	2,441
6,940	0.032	12,524	0.057	$213,497	$0.974	2,054	2,390
2,468	0.034	3,000	0.052	$50,954	$0.010		
3,232	0.030	4,710	0.056	$67,299	$1.032		
3,313	0.029	5,422	0.044	$90,327	$1.067		
3,982	0.047	5,933	0.070	$100,073	$1.103		
3,354	0.040	5,302	0.063	$105,212	$1.243		
157	0.006	214	0.000	$3,396	$0.122		
266	0.013	251	0.016	$5,103	$0.317		
211	0.013	276	0.017	$5,245	$0.326		
254	0.016	309	0.019	$5,844	$0.363		
214	0.013	274	0.017	$4,100	$0.304		
2,424	0.026	4,025	0.040	$42,350	$0.419	2,152	2,439
3,430	0.034	4,944	0.049	$92,402	$0.917	2,140	2,193
3,524	0.035	5,490	0.057	$95,572	$0.949	2,412	2,239
4,234	0.042	4,242	0.042	$105,917	$1.052	1,913	2,407
3,540	0.035	5,576	0.055	$111,392	$1.106	1,847	2,532

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
AS OF JUNE 30, 1986

JUNIOR COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTRICITY (MEGA WATT-HRS)	3
TOTALS						
E & G	1981-82	2,017,215	101,717	0.050	23,488.8	
	1982-83	2,089,821	95,887	0.046	22,547.4	
	1983-84	2,180,931	100,401	0.046	25,813.2	
	1984-85	2,143,888	85,959	0.040	24,871.4	
	1985-86	2,213,760	71,700	0.032	24,886.9	
AUXILIARY & OTHER	1981-82	328,389	5,762	0.018	2,461.4	
	1982-83	302,544	5,811	0.019	2,263.7	
	1983-84	264,685	5,460	0.021	2,364.1	
	1984-85	302,616	4,552	0.015	1,774.3	
	1985-86	259,074	4,049	0.016	1,760.8	
TOTAL	1981-82	2,345,604	107,479	0.046	25,950.2	
	1982-83	2,392,365	100,898	0.042	24,811.1	
	1983-84	2,445,616	105,941	0.043	28,177.3	
	1984-85	2,445,616	90,511	0.037	26,645.7	
	1985-86	2,472,834	75,757	0.031	25,767.2	

NOTES: (1) HEATING AND COOLING DEGREE-DAY VALUES FOR TOTALS
ARE ARITHMETIC AVERAGES OF INSTITUTIONAL VALUES

UTSUMSJR - 6/11/87

ICAL ENERGY (MMBTU- 414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
80,191	0.040	181,908	0.090	$1,950,239	$0.967		
76,977	0.037	172,064	0.082	$1,854,912	$0.904		
80,126	0.040	188,687	0.086	$2,331,769	$1.069		
84,911	0.040	170,870	0.080	$2,315,499	$1.080		
81,960	0.037	153,648	0.069	$2,215,046	$1.001		
8,403	0.026	14,165	0.043	$193,167	$0.588		
7,720	0.024	13,539	0.045	$188,785	$0.624		
8,071	0.030	13,531	0.051	$204,595	$0.773		
6,057	0.020	10,609	0.035	$167,478	$0.553		
6,010	0.023	10,059	0.039	$158,532	$0.612		
80,594	0.038	196,073	0.084	$2,143,486	$0.914	2,494	2,166
84,705	0.035	185,603	0.078	$2,245,697	$0.939	2,574	1,950
96,197	0.039	202,139	0.083	$2,536,364	$1.037	2,865	2,059
90,968	0.037	181,479	0.074	$2,402,977	$1.015	2,959	2,130
87,969	0.036	169,726	0.066	$2,374,378	$0.960	2,283	2,181

Technical Colleges

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
AS OF JUNE 30, 1986

TECHNICAL COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELEC (MEGA WATT-HRS)
ALABAMA AV & TECH COL					
E & G	1981-82	160,173	1,490	0.015	472.6
	1982-83	112,144	1,224	0.011	490.0
	1983-84	112,144	1,163	0.010	596.7
	1984-85	112,144	1,201	0.011	587.4
	1985-86	112,144	1,678	0.015	778.6
AUXILIARY & OTHER	1981-82	30,472	934	0.031	405.9
	1982-83	30,472	845	0.028	519.8
	1983-84	30,472	880	0.029	549.9
	1984-85	30,472	885	0.029	489.6
	1985-86	29,534	313	0.011	303.0
TOTAL	1981-82	130,645	2,424	0.019	1,278.5
	1982-83	142,630	2,069	0.015	1,009.8
	1983-84	142,630	2,043	0.014	1,146.6
	1984-85	142,630	2,166	0.015	1,077.0
	1985-86	141,702	1,991	0.014	1,076.6
ATHENS ST TECH COLLEGE					
E & G	1981-82	35,622	0	0.000	378.0
	1982-83	35,622	0	0.000	337.2
	1983-84	35,622	0	0.000	409.8
	1984-85	35,622	0	0.000	382.8
	1985-86	31,030	0	0.000	378.3
AUXILIARY & OTHER	1981-82	15,408	0	0.000	0.0
	1982-83	15,408	0	0.000	0.0
	1983-84	15,408	0	0.000	0.0
	1984-85	15,408	0	0.000	0.0
	1985-86	0	0	0.000	917.5
TOTAL	1981-82	51,030	0	0.000	378.0
	1982-83	51,030	0	0.000	337.2
	1983-84	51,030	0	0.000	409.8
	1984-85	51,030	0	0.000	382.8
	1985-86	51,030	0	0.000	1,295.7

TRICAL ENERGY (MMBTU- 3.414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
2,296	0.023	3,786	0.038	$64,619	$0.645		
1,673	0.015	2,097	0.026	$61,507	$0.548		
2,037	0.018	3,200	0.029	$65,112	$0.580		
2,005	0.018	3,286	0.029	$64,045	$0.571		
2,641	0.024	4,319	0.039	$70,253	$0.626		
2,069	0.048	3,063	0.099	$45,213	$1.484		
1,772	0.058	2,617	0.086	$43,038	$1.412		
1,877	0.062	2,757	0.090	$48,736	$1.599		
1,671	0.055	2,554	0.084	$46,208	$1.516		
1,034	0.035	1,847	0.046	$45,229	$1.531		
4,345	0.033	6,789	0.052	$109,832	$0.841	2,152	2,439
3,445	0.024	5,514	0.039	$104,545	$0.733	2,140	2,193
3,914	0.027	5,957	0.042	$113,042	$0.798	2,412	2,239
3,677	0.026	5,043	0.041	$110,253	$0.773	1,913	2,407
3,476	0.026	5,446	0.040	$115,476	$0.815	2,054	2,398
1,956	0.055	1,956	0.055	$43,085	$1.206		
1,834	0.051	1,834	0.051	$51,036	$1.455		
2,082	0.058	2,082	0.058	$53,577	$1.504		
1,988	0.056	1,988	0.056	$57,604	$1.617		
1,974	0.039	1,974	0.039	$60,430	$1.184		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
8,132	0.000	8,132	0.000	$94,704	$0.000		
1,956	0.038	1,956	0.038	$45,085	$0.878	1,648	2,794
1,834	0.036	1,834	0.036	$51,036	$1.016	1,986	2,242
2,082	0.041	2,082	0.041	$53,577	$1.050	2,081	2,230
1,988	0.039	1,988	0.039	$57,604	$1.129	1,658	2,485
5,186	0.100	5,186	0.100	$155,134	$3.048	1,543	2,552

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TECHNICAL COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECT (MEGA WATT-HRS)	$
AYERS ST TECH COLLEGE						
E & G	1981-82	86,576	4,990	0.058	819.2	
	1982-83	99,649	4,913	0.049	775.8	
	1983-84	99,649	5,915	0.059	934.9	
	1984-85	99,649	4,079	0.049	929.3	
	1985-86	98,082	4,420	0.045	947.5	
AUXILIARY & OTHER	1981-82	6,469	484	0.063	66.4	
	1982-83	5,353	399	0.075	62.8	
	1983-84	5,353	318	0.059	51.3	
	1984-85	5,353	256	0.048	49.9	
	1985-86	6,120	231	0.038	50.9	
TOTAL	1981-82	93,039	5,384	0.058	885.6	
	1982-83	105,002	5,312	0.051	837.8	
	1983-84	105,002	6,233	0.059	1,006.2	
	1984-85	105,002	5,135	0.049	979.2	
	1985-86	105,002	4,651	0.044	998.4	
BESSEMER ST TECH COLLEGE						
E & G	1981-82	194,000	9,225	0.048	2,471.4	
	1982-83	194,000	7,526	0.039	2,455.6	
	1983-84	205,000	6,857	0.033	2,802.3	
	1984-85	205,000	6,443	0.031	2,708.8	
	1985-86	209,686	7,749	0.037	2,885.2	
AUXILIARY & OTHER	1981-82	11,960	458	0.038	122.2	
	1982-83	11,960	376	0.031	121.9	
	1983-84	12,960	341	0.026	139.1	
	1984-85	12,960	320	0.025	134.5	
	1985-86	10,873	384	0.036	139.3	
TOTAL	1981-82	205,960	9,683	0.047	2,593.6	
	1982-83	205,960	7,902	0.038	2,577.5	
	1983-84	217,960	7,198	0.033	2,941.4	
	1984-85	217,960	6,763	0.031	2,843.3	
	1985-86	220,561	8,136	0.037	2,944.5	

TICAL ENERGY (MMBTU- 414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
2,797	0.032	7,777	0.090	$76,723	$0.886		
2,646	0.027	7,559	0.076	$84,959	$0.853		
3,260	0.033	9,175	0.092	$101,148	$1.015		
3,173	0.032	8,052	0.081	$103,414	$1.038		
3,235	0.033	7,654	0.077	$102,351	$1.035		
227	0.035	631	0.098	$6,220	$0.962		
214	0.040	613	0.115	$7,370	$1.370		
175	0.033	493	0.092	$5,435	$1.015		
170	0.032	426	0.080	$5,560	$1.039		
174	0.028	405	0.066	$5,517	$0.981		
3,023	0.032	8,407	0.090	$82,943	$0.891	2,007	1,941
2,860	0.027	8,172	0.078	$92,337	$0.879	2,977	1,796
3,435	0.033	9,668	0.092	$106,383	$1.015	3,296	1,860
3,343	0.032	8,478	0.081	$108,974	$1.038	2,708	1,909
3,409	0.032	8,059	0.077	$107,868	$1.027	2,586	1,948
8,437	0.043	17,662	0.091	$170,560	$0.879		
8,383	0.043	15,909	0.082	$171,519	$0.884		
9,567	0.047	16,424	0.080	$193,324	$0.943		
9,248	0.045	15,691	0.077	$187,564	$0.915		
9,577	0.046	17,346	0.083	$205,605	$0.981		
417	0.035	875	0.073	$8,468	$0.708		
416	0.035	792	0.066	$8,605	$0.719		
475	0.037	816	0.063	$9,681	$0.741		
459	0.035	779	0.060	$9,313	$0.719		
475	0.044	862	0.079	$10,211	$0.939		
8,855	0.043	18,538	0.090	$179,028	$0.869	2,007	1,941
8,800	0.043	16,702	0.081	$180,124	$0.875	2,977	1,796
10,042	0.046	17,240	0.079	$202,925	$0.931	3,296	1,860
9,707	0.045	16,470	0.076	$196,877	$0.909	2,708	1,909
10,053	0.046	18,208	0.083	$215,816	$0.978	2,586	1,948

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INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTR (MEGA WATT-HRS)	$
CARVER ST TECH COLLEGE						
E & G	1981-82	50,362	2,964	0.059	438.5	
	1982-83	50,362	2,062	0.041	467.9	
	1983-84	50,362	2,367	0.047	514.0	
	1984-85	50,362	2,219	0.044	511.6	
	1985-86	56,974	2,190	0.038	555.2	
AUXILIARY & OTHER	1981-82	3,764	147	0.039	21.6	
	1982-83	3,764	101	0.027	23.1	
	1983-84	3,764	105	0.028	25.4	
	1984-85	3,764	110	0.029	25.2	
	1985-86	3,764	100	0.027	27.4	
TOTAL	1981-82	54,126	3,111	0.057	460.1	
	1982-83	54,126	2,163	0.040	491.0	
	1983-84	54,126	2,472	0.046	539.4	
	1984-85	54,126	2,329	0.043	536.8	
	1985-86	60,738	2,290	0.038	582.6	
DRAKE ST TECH COLLEGE						
E & G	1981-82	102,856	2,468	0.024	818.6	
	1982-83	102,856	4,536	0.044	920.4	
	1983-84	102,856	5,611	0.055	931.5	
	1984-85	102,856	5,359	0.052	1,061.1	
	1985-86	102,856	5,306	0.052	1,003.5	
AUXILIARY & OTHER	1981-82	2,643	0	0.000	0.0	
	1982-83	2,643	0	0.000	0.0	
	1983-84	2,643	0	0.000	0.0	
	1984-85	2,643	0	0.000	0.0	
	1985-86	2,643	0	0.000	0.0	
TOTAL	1981-82	105,499	2,468	0.023	818.6	
	1982-83	105,499	4,536	0.043	920.4	
	1983-84	105,499	5,611	0.053	931.5	
	1984-85	105,499	5,359	0.051	1,061.1	
	1985-86	105,499	5,306	0.051	1,003.5	

ICAL ENERGY (MMBTU-414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
1,497	0.030	4,441	0.089	$44,076	$0.891		
1,597	0.032	3,659	0.073	$59,592	$1.183		
1,755	0.035	4,122	0.082	$62,434	$1.240		
1,747	0.035	3,966	0.079	$61,087	$1.213		
1,896	0.038	4,086	0.072	$60,141	$1.056		
74	0.020	221	0.059	$2,213	$0.588		
79	0.021	180	0.048	$2,939	$0.781		
87	0.023	192	0.051	$3,079	$0.818		
86	0.023	196	0.052	$3,011	$0.800		
93	0.025	193	0.051	$2,981	$0.792		
1,571	0.029	4,682	0.086	$47,089	$0.870	1,640	2,794
1,676	0.031	3,839	0.071	$62,531	$1.155	1,906	2,242
1,842	0.034	4,314	0.080	$65,313	$1.210	2,081	2,230
1,833	0.034	4,162	0.077	$64,098	$1.184	1,650	2,405
1,989	0.033	4,279	0.070	$63,122	$1.039	1,543	2,552
2,795	0.027	5,263	0.051	$63,661	$0.619		
3,142	0.031	7,678	0.075	$79,257	$0.771		
3,180	0.031	8,791	0.085	$79,505	$0.773		
3,623	0.035	8,982	0.087	$87,996	$0.856		
3,426	0.033	8,812	0.086	$92,750	$0.902		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
2,795	0.026	5,263	0.050	$63,661	$0.603	3,530	1,983
3,142	0.030	7,678	0.073	$79,257	$0.751	3,350	1,521
3,180	0.030	8,791	0.083	$79,505	$0.754	3,726	1,804
3,623	0.034	8,982	0.085	$87,996	$0.834	3,182	1,651
3,426	0.032	8,812	0.084	$92,750	$0.879	3,068	1,754

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INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTR (MEGA WATT-HRS)	$.
FREDD ST TECH COLLEGE						
E & G	1981-82					
	1982-83	76,554	3,121	0.041	543.3	
	1983-84	76,614	3,172	0.041	570.7	
	1984-85	76,614	2,857	0.037	592.8	
	1985-86	81,852	2,496	0.031	631.4	
AUXILIARY & OTHER	1981-82					
	1982-83	4,798	0	0.000	0.0	
	1983-84	4,738	0	0.000	0.0	
	1984-85	4,738	0	0.000	0.0	
	1985-86	0	0	0.000	0.0	
TOTAL	1981-82					
	1982-83	81,352	3,121	0.038	543.3	
	1983-84	81,352	3,172	0.039	570.7	
	1984-85	81,352	2,857	0.035	592.8	
	1985-86	81,852	2,496	0.031	631.4	
HOOSON ST TECH COLLEGE						
E & G	1981-82	84,563	8,999	0.106	780.7	
	1982-83	84,563	7,189	0.085	736.2	
	1983-84	84,563	8,044	0.095	671.7	
	1984-85	84,563	7,694	0.091	742.7	
	1985-86	71,696	7,797	0.109	745.6	
AUXILIARY & OTHER	1981-82	5,205	474	0.091	41.1	
	1982-83	5,205	381	0.073	38.7	
	1983-84	5,205	423	0.081	35.4	
	1984-85	5,205	391	0.075	39.1	
	1985-86	9,789	391	0.040	39.2	
TOTAL	1981-82	89,768	9,473	0.106	821.8	
	1982-83	89,768	7,570	0.084	774.9	
	1983-84	89,768	8,467	0.094	707.1	
	1984-85	89,768	8,085	0.090	781.8	
	1985-86	81,485	8,189	0.101	784.8	

ICAL ENERGY (MMBTU-814 X MMI)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
1,855	0.024	4,976	0.065	$63,162	$0.825		
1,976	0.026	5,140	0.067	$68,196	$0.890		
2,024	0.026	4,881	0.064	$68,593	$0.895		
2,156	0.026	4,632	0.057	$68,373	$0.840		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
1,855	0.023	4,976	0.061	$63,162	$0.776	2,977	1,796
1,976	0.024	5,140	0.063	$68,196	$0.838	3,296	1,868
2,024	0.025	4,881	0.060	$68,593	$0.843	2,788	1,909
2,156	0.026	4,632	0.057	$68,373	$0.840	2,386	1,948
2,665	0.032	11,644	0.138	$94,727	$1.120		
2,513	0.030	9,782	0.115	$104,435	$1.235		
2,293	0.027	10,337	0.122	$100,669	$1.285		
2,536	0.030	10,230	0.121	$109,303	$1.294		
2,545	0.036	10,342	0.144	$106,589	$1.487		
140	0.027	614	0.118	$4,984	$0.958		
132	0.025	513	0.099	$5,497	$1.056		
121	0.023	544	0.104	$5,720	$1.099		
133	0.026	524	0.101	$5,757	$1.106		
134	0.014	525	0.054	$5,469	$0.570		
2,806	0 031	12,279	0.137	$99,711	$1.111	2,152	2,439
2,646	0.029	10,216	0.114	$109,932	$1.225	2,148	2,193
2,414	0.027	10,891	0.121	$114,389	$1.274	2,412	2,239
2,669	0.030	10,754	0.120	$115,140	$1.283	1,913	2,487
2,679	0.033	10,868	0.134	$112,198	$1.378	2,054	2,398

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INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF.)	ELECT (MEGA WATT-HRS)
INGRAM ST TECH COLLEGE					
E & G	1981-82	84,940	1,662	0.020	443.1
	1982-83	184,226	2,198	0.021	584.6
	1983-84	185,182	3,117	0.030	675.8
	1984-85	185,182	2,794	0.027	799.5
	1985-86	68,058	2,837	0.042	882.5
AUXILIARY & OTHER	1981-82	0	0	0.000	0.0
	1982-83	0	0	0.000	0.0
	1983-84	0	0	0.000	0.0
	1984-85	0	0	0.000	0.0
	1985-86	0	0	0.000	0.0
TOTAL	1981-82	84,940	1,662	0.020	443.1
	1982-83	184,226	2,198	0.021	584.6
	1983-84	185,182	3,117	0.030	675.8
	1984-85	185,182	2,794	0.027	799.5
	1985-86	68,058	2,837	0.042	882.5
MACARTHUR ST TECH COLLEGE					
E & G	1981-82	86,171	4,757	0.055	729.5
	1982-83	86,171	5,172	0.060	698.7
	1983-84	91,684	6,184	0.067	724.9
	1984-85	91,684	5,966	0.065	798.5
	1985-86	91,684	5,638	0.062	731.3
AUXILIARY & OTHER	1981-82	5,672	448	0.079	114.7
	1982-83	5,672	419	0.074	106.2
	1983-84	5,671	423	0.075	102.8
	1984-85	5,671	369	0.065	74.8
	1985-86	5,672	239	0.042	59.8
TOTAL	1981-82	91,843	5,205	0.057	844.2
	1982-83	91,843	5,591	0.061	804.9
	1983-84	97,275	6,527	0.067	827.7
	1984-85	97,275	6,335	0.065	873.3
	1985-86	97,276	5,897	0.061	782.1

RICAL ENERGY (MMBTU- .414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
1,513	0.018	3,175	0.037	$52,551	$0.619		
1,723	0.017	3,921	0.038	$73,044	$0.708		
2,307	0.022	5,424	0.052	$98,550	$0.937		
2,729	0.026	5,523	0.053	$101,093	$0.969		
3,013	0.044	5,850	0.086	$105,308	$1.550		
0	0.000	0	0.000	$0	0.000		
0	0.000	0	0.000	$0	0.000		
0	0.000	0	0.000	$0	0.000		
0	0.000	0	0.000	$0	0.000		
0	0.000	0	0.000	$0	0.000		
1,513	0.018	3,175	0.037	$52,551	$0.619	2,152	2,439
1,723	0.017	3,921	0.038	$73,044	$0.708	2,140	2,193
2,307	0.022	5,424	0.052	$98,550	$0.937	2,412	2,239
2,729	0.026	5,523	0.053	$101,093	$0.969	1,913	2,407
3,013	0.044	5,850	0.086	$105,308	$1.550	2,054	2,398
2,491	0.029	7,248	0.084	$76,491	$0.888		
2,385	0.028	7,557	0.088	$81,596	$0.947		
2,475	0.027	8,579	0.094	$83,205	$0.908		
2,726	0.030	8,692	0.095	$89,653	$0.979		
2,497	0.027	8,155	0.089	$93,796	$1.024		
392	0.069	840	0.148	$5,127	$0.904		
363	0.064	782	0.138	$5,279	$0.931		
351	0.062	774	0.136	$5,308	$0.936		
255	0.045	624	0.110	$4,104	$0.724		
173	0.031	412	0.073	$3,640	$0.642		
2,882	0.031	8,087	0.088	$81,618	$0.889	2,152	2,439
2,748	0.030	8,339	0.091	$86,875	$0.946	2,140	2,193
2,826	0.029	9,353	0.096	$88,513	$0.910	2,412	2,239
2,901	0.031	9,316	0.096	$93,759	$0.964	1,913	2,407
2,670	0.027	8,567	0.088	$97,436	$1.002	2,054	2,398

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
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TECHNICAL COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTRICITY (MEGA WATT-HRS)
MUSCLE SHOALS ST TECH COL					
E & G	1981-82	92,885	7,388	0.080	1,337.2
	1982-83	92,885	6,013	0.065	1,239.8
	1983-84	107,885	8,242	0.076	1,290.7
	1984-85	107,885	7,022	0.065	1,230.3
	1985-86	107,885	6,060	0.056	1,249.2
AUXILIARY & OTHER	1981-82	5,809	390	0.067	70.4
	1982-83	5,809	318	0.055	65.2
	1983-84	5,809	435	0.075	67.9
	1984-85	5,809	479	0.082	64.8
	1985-86	5,809	319	0.055	65.7
TOTAL	1981-82	98,694	7,778	0.079	1,407.6
	1982-83	98,694	6,331	0.064	1,305.0
	1983-84	113,694	8,677	0.076	1,358.6
	1984-85	113,694	7,501	0.066	1,295.1
	1985-86	113,694	6,379	0.056	1,314.9
NORTHWEST ALABAMA ST T C					
E & G	1981-82	116,929	13,936	0.119	1,156.5
	1982-83	117,315	15,970	0.136	1,173.2
	1983-84	116,929	16,816	0.144	959.2
	1984-85	116,929	16,787	0.143	821.6
	1985-86	117,314	14,123	0.120	1,103.1
AUXILIARY & OTHER	1981-82	27,622	0	0.000	0.0
	1982-83	27,236	0	0.000	0.0
	1983-84	27,622	0	0.000	0.0
	1984-85	27,622	0	0.000	0.0
	1985-86	27,237	0	0.000	0.0
TOTAL	1981-82	144,551	13,936	0.096	1,156.5
	1982-83	144,551	15,970	0.110	1,173.2
	1983-84	144,551	16,816	0.116	959.2
	1984-85	144,551	16,787	0.116	821.6
	1985-86	144,551	14,123	0.098	1,103.1

RICAL ENERGY (MMBTU- .414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
4,565	0.049	11,953	0.129	$104,976	$1.130		
4,233	0.046	10,246	0.110	$107,247	$1.155		
4,406	0.041	12,648	0.117	$120,361	$1.192		
4,288	0.039	11,222	0.104	$121,775	$1.129		
4,265	0.040	10,324	0.096	$118,642	$1.100		
248	0.041	630	0.109	$5,524	$0.951		
223	0.038	541	0.093	$5,645	$0.972		
232	0.040	667	0.115	$6,767	$1.165		
221	0.038	709	0.121	$6,410	$1.103		
224	0.039	543	0.094	$6,244	$1.075		
4,804	0.049	12,584	0.128	$110,500	$1.120	3,538	1,539
4,455	0.045	10,786	0.109	$112,892	$1.144	3,350	1,521
4,638	0.041	13,315	0.117	$135,328	$1.190	3,726	1,804
4,421	0.039	11,822	0.103	$128,185	$1.127	3,182	1,651
4,489	0.039	10,868	0.096	$124,886	$1.098	3,068	1,754
3,948	0.034	17,084	0.153	$120,922	$1.103		
4,005	0.034	19,975	0.170	$165,227	$1.408		
3,275	0.028	20,091	0.172	$157,868	$1.350		
2,805	0.024	19,512	0.167	$143,663	$1.229		
3,766	0.032	17,089	0.152	$155,444	$1.325		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
3,948	0.027	17,084	0.124	$120,922	$0.892	3,538	1,539
4,005	0.028	19,975	0.138	$165,227	$1.143	3,350	1,521
3,275	0.023	20,091	0.139	$157,868	$1.092	3,726	1,804
2,805	0.019	19,512	0.135	$143,663	$0.994	3,182	1,651
3,766	0.026	17,089	0.124	$155,444	$1.075	3,068	1,754

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TECHNICAL COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECT (MEGA WATT-HRS)
GUNNELLEY ST TECH COLLEGE					
E & G	1981-82	78,311	6,579	0.090	972.9
	1982-83	77,407	6,425	0.083	899.4
	1983-84	89,016	6,167	0.069	785.9
	1984-85	89,016	5,804	0.065	1,003.9
	1985-86	86,167	4,997	0.058	861.1
AUXILIARY & OTHER	1981-82	7,581	0	0.000	0.0
	1982-83	18,393	0	0.000	0.0
	1983-84	6,784	0	0.000	0.0
	1984-85	6,784	0	0.000	0.0
	1985-86	6,784		0.000	0.0
TOTAL	1981-82	80,892	6,579	0.081	972.9
	1982-83	95,800	6,425	0.067	899.4
	1983-84	95,800	6,167	0.064	785.9
	1984-85	95,800	5,804	0.061	1,003.9
	1985-86	92,951	4,997	0.054	861.1
OPELIKA ST TECH COLLEGE					
E & G	1981-82	105,175	4,546	0.043	678.8
	1982-83	106,175	4,440	0.042	591.7
	1983-84	106,175	4,677	0.044	744.1
	1984-85	106,175	3,973	0.037	731.5
	1985-86	105,764	4,038	0.038	720.7
AUXILIARY & OTHER	1981-82	6,462	352	0.054	51.1
	1982-83	6,462	335	0.052	44.5
	1983-84	6,462	352	0.054	56.0
	1984-85	6,462	299	0.046	55.1
	1985-86	6,873	304	0.044	54.2
TOTAL	1981-82	111,637	4,898	0.044	729.9
	1982-83	112,637	4,775	0.042	636.2
	1983-84	112,637	5,029	0.045	800.1
	1984-85	112,637	4,272	0.038	786.6
	1985-86	112,637	4,342	0.039	774.9

RICAL ENERGY (MMBTU- .414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
3,321	0.045	9,900	0.135	$100,740	$1.374		
3,071	0.040	9,496	0.123	$107,274	$1.386		
2,683	0.030	8,850	0.099	$102,320	$1.150		
3,427	0.039	9,231	0.104	$119,201	$1.340		
2,940	0.034	7,936	0.092	$101,313	$1.176		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
3,321	0.041	9,900	0.122	$100,740	$1.245	2,807	1,941
3,071	0.032	9,496	0.099	$107,274	$1.120	2,977	1,796
2,683	0.028	8,850	0.092	$102,320	$1.068	3,296	1,860
3,427	0.036	9,231	0.096	$119,201	$1.245	2,708	1,909
2,940	0.032	7,936	0.085	$101,313	$1.099	2,386	1,948
2,317	0.022	6,863	0.065	$83,217	$0.791		
2,020	0.019	6,468	0.061	$99,438	$0.758		
2,540	0.024	7,217	0.068	$94,614	$0.891		
2,497	0.024	6,478	0.061	$80,478	$0.760		
2,448	0.023	6,498	0.061	$83,097	$0.786		
174	0.027	526	0.081	$6,263	$0.969		
152	0.024	487	0.075	$6,078	$0.941		
191	0.030	563	0.084	$7,122	$1.102		
188	0.029	487	0.075	$6,073	$0.940		
185	0.027	489	0.071	$6,364	$0.926		
2,492	0.022	7,398	0.066	$89,489	$0.802	2,272	2,324
2,172	0.019	6,947	0.062	$86,516	$0.768	2,166	2,252
2,732	0.024	7,761	0.069	$101,738	$0.903	2,469	2,382
2,685	0.024	6,957	0.062	$86,751	$0.770	2,018	2,441
2,644	0.023	6,987	0.062	$89,461	$0.794	1,847	2,532

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TECHNICAL COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	EL (MEGA WATT-HRS)
PATTERSON ST TECH COLLEGE					
E & G	1981-82	105,135	5,727	0.054	1,479.4
	1982-83	105,135	4,126	0.050	1,470.5
	1983-84	114,932	4,578	0.040	1,424.8
	1984-85	114,932	5,243	0.046	1,270.6
	1985-86	119,579	4,510	0.038	1,301.9
AUXILIARY & OTHER	1981-82	13,127	716	0.055	184.7
	1982-83	13,127	765	0.058	183.6
	1983-84	13,963	571	0.041	177.9
	1984-85	13,963	636	0.046	97.5
	1985-86	9,873	549	0.056	154.3
TOTAL	1981-82	118,262	6,443	0.054	1,664.1
	1982-83	118,262	6,091	0.050	1,654.1
	1983-84	128,895	5,149	0.040	1,602.7
	1984-85	128,895	5,879	0.046	1,368.1
	1985-86	129,452	5,059	0.039	1,456.2
REID ST TECH COLLEGE					
E & G	1981-82	55,784	1,687	0.030	419.4
	1982-83	55,784	1,860	0.033	439.9
	1983-84	55,784	2,119	0.038	493.7
	1984-85	55,784	2,618	0.047	497.2
	1985-86	55,784	1,120	0.020	536.4
AUXILIARY & OTHER	1981-82	0	0	0.000	0.0
	1982-83	0	0	0.000	0.0
	1983-84	0	0	0.000	0.0
	1984-85	0	0	0.000	0.0
	1985-86	0	0	0.000	0.0
TOTAL	1981-82	55,784	1,687	0.030	419.4
	1982-83	55,784	1,860	0.033	439.9
	1983-84	55,784	2,119	0.038	493.7
	1984-85	55,784	2,618	0.047	497.2
	1985-86	55,784	1,120	0.020	536.4

CTRICAL ENERGY (MMBTU- 3,414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
5,051	0.040	10,778	0.103	$119,001	$1.132		
5,020	0.040	11,146	0.106	$137,154	$1.304		
4,864	0.042	9,442	0.082	$130,240	$1.263		
4,338	0.038	9,581	0.083	$146,459	$1.274		
4,445	0.037	8,955	0.075	$130,563	$1.092		
631	0.040	1,347	0.103	$14,859	$1.132		
627	0.040	1,392	0.106	$17,121	$1.304		
697	0.043	1,178	0.084	$17,261	$1.236		
333	0.024	969	0.069	$17,732	$1.270		
527	0.053	1,076	0.109	$15,809	$1.601		
5,681	0.040	12,124	0.103	$133,860	$1.132	2,152	2,439
5,647	0.040	12,538	0.106	$154,225	$1.304	2,148	2,193
5,472	0.042	10,621	0.082	$155,589	$1.206	2,412	2,239
4,671	0.036	10,550	0.082	$144,182	$1.274	1,913	2,407
4,971	0.038	10,031	0.077	$146,372	$1.131	2,034	2,398
1,432	0.026	3,119	0.056	$34,480	$0.618		
1,502	0.027	3,362	0.060	$43,116	$0.773		
1,692	0.030	3,811	0.068	$47,362	$0.849		
1,697	0.030	4,307	0.077	$44,028	$0.789		
1,900	0.034	3,020	0.054	$43,050	$0.772		
0	0.000	0	0.000	$0	0.000		
0	0.000	0	0.000	$0	0.000		
0	0.000	0	0.000	$0	0.000		
0	0.000	0	0.000	$0	0.000		
0	0.000	0	0.000	$0	0.000		
1,432	0.026	3,119	0.056	$34,480	$0.618	2,152	2,439
1,502	0.027	3,362	0.060	$43,116	$0.773	2,148	2,193
1,692	0.030	3,811	0.068	$47,362	$0.849	2,412	2,239
1,697	0.030	4,307	0.077	$44,028	$0.789	1,913	2,407
1,900	0.034	3,020	0.054	$43,050	$0.772	2,034	2,398

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TECHNICAL COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTRICITY (MEGA WATT-HRS)	ELECT
SOUTHWEST ST TECH COLLEGE						
E & G	1981-82	119,734	4,627	0.039	933.2	
	1982-83	113,458	4,785	0.041	877.6	
	1983-84	119,000	5,124	0.043	909.3	
	1984-85	119,000	4,007	0.033	896.7	
	1985-86	120,939	7,906	0.060	933.5	
AUXILIARY & OTHER	1981-82	7,391	296	0.040	59.6	
	1982-83	10,711	300	0.028	54.0	
	1983-84	10,711	327	0.031	58.9	
	1984-85	10,711	256	0.024	54.9	
	1985-86	10,711	466	0.044	69.8	
TOTAL	1981-82	127,125	4,928	0.039	992.8	
	1982-83	124,169	5,085	0.040	933.6	
	1983-84	130,511	5,451	0.042	967.3	
	1984-85	130,511	4,263	0.033	947.6	
	1985-86	131,650	7,772	0.059	1,014.3	
SPARKS ST TECH COLLEGE						
E & G	1981-82	69,153	2,477	0.036	552.6	
	1982-83	69,153	2,421	0.035	487.8	
	1983-84	69,153	2,629	0.038	487.8	
	1984-85	69,153	2,429	0.035	530.4	
	1985-86	79,169	2,084	0.026	510.0	
AUXILIARY & OTHER	1981-82	10,916	0	0.000	0.0	
	1982-83	10,916	0	0.000	0.0	
	1983-84	10,916	0	0.000	0.0	
	1984-85	10,916	0	0.000	0.0	
	1985-86	4,900	0	0.000	0.0	
TOTAL	1981-82	80,069	2,477	0.028	552.6	
	1982-83	80,069	2,421	0.027	487.8	
	1983-84	80,069	2,629	0.030	487.8	
	1984-85	80,069	2,429	0.028	530.4	
	1985-86	84,069	2,084	0.025	510.0	

ICAL ENERGY (MMBTU- 414 X MMH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAY PER YEAR
3,184	0.027	7,813	0.065	$92,926	$0.776		
2,996	0.026	7,781	0.067	$102,499	$0.888		
3,104	0.026	8,228	0.069	$110,806	$0.925		
3,041	0.025	7,848	0.059	$106,221	$0.887		
3,255	0.027	10,561	0.087	$121,348	$1.004		
283	0.020	899	0.068	$5,936	$0.802		
191	0.018	491	0.046	$4,542	$0.611		
198	0.018	525	0.049	$7,072	$0.660		
194	0.018	450	0.042	$6,778	$0.633		
298	0.019	674	0.063	$7,748	$0.723		
3,389	0.027	8,312	0.065	$98,854	$0.778	1,640	2,794
3,187	0.025	8,272	0.065	$109,041	$0.864	1,906	2,242
3,302	0.025	8,753	0.067	$117,878	$0.903	2,081	2,230
3,235	0.025	7,498	0.057	$112,999	$0.866	1,658	2,405
3,463	0.026	11,235	0.085	$129,116	$0.981	1,543	2,552
1,887	0.027	4,364	0.063	$54,988	$0.795		
1,665	0.024	4,066	0.059	$53,917	$0.780		
1,665	0.024	4,294	0.062	$57,377	$0.830		
1,811	0.026	4,248	0.061	$61,362	$0.887		
1,741	0.022	3,825	0.048	$57,318	$0.724		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
1,887	0.021	4,364	0.050	$54,988	$0.624	2,272	2,439
1,665	0.019	4,086	0.046	$53,917	$0.612	2,166	2,193
1,665	0.019	4,294	0.049	$57,377	$0.652	2,460	2,239
1,811	0.021	4,248	0.048	$61,362	$0.697	2,018	2,441
1,741	0.021	3,825	0.045	$57,318	$0.682	1,847	2,532

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INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECT (MEGA WATT-HRS)	3
TREHOLM ST TECH COLLEGE						
E & G	1981-82	69,693	3,934	0.057	754.2	
	1982-83	57,147	3,698	0.065	598.2	
	1983-84	57,147	3,258	0.057	908.8	
	1984-85	57,147	3,002	0.053	776.4	
	1985-86	71,029	2,855	0.040	733.2	
AUXILIARY & OTHER	1981-82	4,189	0	0.000	0.0	
	1982-83	17,585	0	0.000	0.0	
	1983-84	17,585	0	0.000	0.0	
	1984-85	17,585	0	0.000	0.0	
	1985-86	5,259	0	0.000	0.0	
TOTAL	1981-82	73,882	3,934	0.054	754.2	
	1982-83	74,732	3,698	0.049	598.2	
	1983-84	74,732	3,258	0.043	908.8	
	1984-85	74,732	3,002	0.040	776.4	
	1985-86	77,079	2,855	0.037	733.2	
WALKER ST TECH COLLEGE						
E & G	1981-82	143,008	3,233	0.023	923.4	
	1982-83	143,008	8,015	0.056	1,124.5	
	1983-84	150,089	6,711	0.044	1,233.9	
	1984-85	150,089	6,930	0.046	1,166.1	
	1985-86	146,014	6,013	0.041	892.3	
AUXILIARY & OTHER	1981-82	7,881	0	0.000	0.0	
	1982-83	7,881	0	0.000	0.0	
	1983-84	6,355	0	0.000	0.0	
	1984-85	6,355	0	0.000	0.0	
	1985-86	8,795	0	0.000	0.0	
TOTAL	1981-82	150,889	3,233	0.021	923.4	
	1982-83	150,889	8,015	0.053	1,124.5	
	1983-84	157,344	6,711	0.043	1,233.9	
	1984-85	157,364	6,930	0.044	1,166.1	
	1985-86	154,809	6,013	0.039	892.3	

ICAL ENERGY (MMBTU-414 X NUM)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAY PER YEAR
2,575	0.037	6,529	0.094	$77,572	$1.113		
2,015	0.035	5,703	0.100	$60,020	$1.204		
3,075	0.054	6,325	0.111	$95,476	$1.674		
2,451	0.046	5,653	0.099	$85,440	$1.495		
2,503	0.035	5,350	0.075	$84,934	$1.183		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
2,575	0.035	6,529	0.000	$77,572	$1.050	2,152	2,439
2,015	0.027	5,703	0.076	$60,020	$0.921	2,140	2,193
3,075	0.041	6,325	0.085	$95,476	$1.280	2,412	2,239
2,451	0.035	5,653	0.076	$85,440	$1.143	1,913	2,407
2,503	0.032	5,350	0.070	$84,934	$1.102	2,054	2,398
3,152	0.022	6,305	0.045	$87,170	$0.610		
3,039	0.027	11,054	0.083	$162,500	$1.137		
4,213	0.028	10,924	0.072	$149,207	$0.989		
3,901	0.026	10,911	0.072	$140,000	$0.902		
3,044	0.021	9,059	0.062	$140,322	$1.016		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
3,152	0.021	6,305	0.042	$87,170	$0.570	2,007	1,941
3,039	0.025	11,054	0.079	$162,500	$1.070	2,977	1,796
4,213	0.027	10,924	0.069	$149,207	$0.940	3,296	1,860
3,901	0.025	10,911	0.069	$140,000	$0.941	2,700	1,909
3,044	0.020	9,059	0.059	$140,322	$0.950	2,506	1,940

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
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TECHNICAL COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	EL (MEGA - WATT-HRS)
TOTALS					
E & G	1981-82	1,776,072	90,699	0.051	16,954.2
	1982-83	1,885,630	97,684	0.052	17,023.5
	1983-84	1,951,250	102,663	0.053	18,292.5
	1984-85	1,951,250	97,219	0.050	18,232.7
	1985-86	1,954,733	93,337	0.048	18,535.3
AUXILIARY & OTHER	1981-82	180,485	4,619	0.026	1,337.7
	1982-83	211,315	4,239	0.020	1,221.0
	1983-84	200,621	4,175	0.021	1,263.7
	1984-85	200,621	4,001	0.020	1,087.4
	1985-86	154,560	3,298	0.021	1,063.1
TOTAL	1981-82	1,956,557	95,318	0.049	18,291.9
	1982-83	2,096,953	101,843	0.049	18,244.5
	1983-84	2,151,871	106,838	0.050	19,556.2
	1984-85	2,151,871	101,220	0.047	19,320.1
	1985-86	2,109,293	96,634	0.046	20,398.4

NOTES: (1) HEATING AND COOLING DEGREE-DAY VALUES FOR TOTALS
ARE ARITHMETIC AVERAGES OF INSTITUTIONAL VALUES

UTSUMSTC - 6/11/87

CTRICAL ENERGY (MMBTU- 3.414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
57,882	0.033	140,581	0.084	$1,574,005	$0.886		
50,110	0.031	155,722	0.083	$1,859,947	$0.986		
62,451	0.032	165,114	0.085	$1,995,771	$1.023		
62,246	0.032	159,465	0.082	$1,988,210	$1.019		
63,280	0.032	156,614	0.080	$2,009,855	$1.020		
4,567	0.025	9,186	0.051	$104,881	$0.581		
4,168	0.020	8,407	0.040	$108,122	$0.512		
4,314	0.022	8,489	0.042	$116,095	$0.579		
3,712	0.019	7,713	0.038	$110,940	$0.553		
6,361	0.041	9,658	0.062	$204,050	$1.320		
62,469	0.032	157,767	0.081	$1,670,806	$0.858	3,089	2,422
62,287	0.030	144,130	0.078	$1,968,849	$0.939	3,054	2,320
66,765	0.031	173,603	0.081	$2,111,866	$0.981	3,375	2,422
65,959	0.031	167,179	0.078	$2,099,158	$0.976	2,763	2,513
69,640	0.033	166,275	0.079	$2,213,985	$1.050	2,724	2,561

Community Colleges

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
AS OF JUNE 30, 1986

COMMUNITY COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELE (MEGA WATT-HRS)
CALHOUN ST CON COLLEGE					
ACADEMIC DIVISION					
E & G	1981-82	295,942	14,546	0.049	4,325.9
	1982-83	295,942	13,586	0.053	4,665.4
	1983-84	281,910	17,142	0.085	4,982.0
	1984-85	281,910	14,162	0.070	5,317.6
	1985-86	317,084	14,112	0.045	4,384.2
AUXILIARY & OTHER	1981-82	15,500	0	0.000	0.0
	1982-83	15,500	0	0.000	0.0
	1983-84	137,556	0	0.000	0.0
	1984-85	137,556	0	0.000	0.0
	1985-86	22,382	0	0.000	1,160.6
TOTAL	1981-82	311,442	14,546	0.047	4,325.9
	1982-83	311,442	13,586	0.050	4,665.4
	1983-84	339,466	17,142	0.050	4,982.0
	1984-85	339,466	14,162	0.042	5,317.6
	1985-86	339,466	14,112	0.042	5,472.8
TECHNICAL DIVISION					
E & G	1981-82	157,436	11,834	0.075	2,614.2
	1982-83	157,436	10,250	0.065	2,525.2
	1983-84	113,848	10,897	0.096	2,701.2
	1984-85	113,848	10,618	0.093	2,188.2
	1985-86	140,523	9,738	0.069	1,743.2
AUXILIARY & OTHER	1981-82	4,645	0	0.000	0.0
	1982-83	4,645	0	0.000	0.0
	1983-84	30,949	0	0.000	0.0
	1984-85	30,949	0	0.000	0.0
	1985-86	21,183	0	0.000	574.1
TOTAL	1981-82	162,081	11,834	0.073	2,614.2
	1982-83	162,081	10,250	0.063	2,525.2
	1983-84	144,797	10,897	0.075	2,701.2
	1984-85	144,797	10,618	0.073	2,188.2
	1985-86	161,706	9,738	0.060	2,317.3

CTRICAL ENERGY (MMBTU- 3.414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
14,769	0.050	29,315	0.099	$285,671	$0.965		
15,928	0.054	31,516	0.106	$323,727	$1.094		
17,009	0.084	34,151	0.169	$348,781	$1.727		
16,154	0.090	32,316	0.160	$354,033	$1.753		
14,695	0.046	28,807	0.091	$383,214	$1.209		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
3,990	0.178	3,990	0.178	$0	$0.000		
14,769	0.047	29,315	0.094	$285,671	$0.917		
15,928	0.051	31,516	0.101	$323,727	$1.039		
17,009	0.050	34,151	0.101	$348,781	$1.027		
16,154	0.053	32,316	0.095	$354,033	$1.043		
16,684	0.055	32,796	0.097	$383,214	$1.129		
8,932	0.057	20,766	0.132	$206,797	$1.314		
8,621	0.055	18,879	0.120	$217,321	$1.380		
9,222	0.081	20,119	0.177	$216,570	$1.902		
7,471	0.066	18,089	0.159	$199,275	$1.750		
5,951	0.042	15,689	0.112	$196,444	$1.398		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
1,960	0.093	1,960	0.093	$0	$0.000		
8,932	0.055	20,766	0.120	$206,797	$1.276		
8,621	0.053	18,879	0.116	$217,321	$1.341		
9,222	0.064	20,119	0.139	$216,570	$1.496		
7,471	0.052	18,089	0.125	$199,275	$1.376		
7,911	0.049	17,649	0.109	$196,444	$1.215		

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
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COMMUNITY COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECT (MEGA WATT-HRS)
BOTH DIVISIONS					
TOTAL	1981-82	473,523	26,388	0.056	6,942.1
	1982-83	473,523	25,044	0.055	7,190.6
	1983-84	484,263	28,039	0.058	7,483.2
	1984-85	484,263	24,780	0.051	7,505.8
	1985-86	501,172	23,850	0.048	7,790.2

RICAL ENERGY (MMBTU- 414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
23,788	0.050	50,080	0.106	$492,468	$1.040	3,538	1,983
24,549	0.052	50,395	0.106	$541,040	$1.143	3,358	1,521
26,230	0.054	54,269	0.112	$563,359	$1.167	3,726	1,804
25,625	0.053	50,405	0.104	$553,308	$1.143	3,182	1,651
26,596	0.053	50,446	0.101	$579,650	$1.157	3,068	1,754

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
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COMMUNITY COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELEC (MEGA WATT-HRS)
GADSDEN ST COM COLLEGE					
GADSDEN ST JR COLLEGE					
E & G	1981-82	299,032	19,117	0.064	3,453.5
	1982-83	299,032	20,251	0.068	2,861.8
	1983-84	307,432	20,425	0.066	3,426.4
	1984-85	299,032	17,099	0.057	3,533.0
	1985-86	312,433	17,589	0.056	3,391.5
AUXILIARY & OTHER	1981-82	59,990	3,702	0.062	707.3
	1982-83	59,990	4,149	0.069	586.1
	1983-84	65,164	4,582	0.069	701.8
	1984-85	59,990	3,502	0.058	723.0
	1985-86	61,797	3,587	0.058	694.6
TOTAL	1981-82	359,022	22,819	0.064	4,160.8
	1982-83	359,022	24,400	0.068	3,447.9
	1983-84	372,596	24,947	0.067	4,128.2
	1984-85	359,022	20,601	0.057	4,257.6
	1985-86	374,230	21,096	0.056	4,086.2
ALABAMA TECH COLLEGE					
E & G	1981-82				
	1982-83	103,693	13,248	0.128	1,601.4
	1983-84	107,396	15,115	0.081	1,639.8
	1984-85	107,396	12,965	0.069	1,442.7
	1985-86	107,378	12,386	0.067	1,679.2
AUXILIARY & OTHER	1981-82				
	1982-83	67,291	284	0.004	34.4
	1983-84	3,344	323	0.097	39.5
	1984-85	3,344	278	0.083	35.7
	1985-86	3,362	269	0.080	33.8
TOTAL	1981-82				
	1982-83	170,984	13,532	0.079	1,635.8
	1983-84	198,740	15,438	0.081	1,879.3
	1984-85	198,740	13,243	0.069	1,698.4
	1985-86	198,740	12,655	0.067	1,715.1

TRICAL ENERGY (MMBTU- 3 414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
11,798	0.039	30,967	0.103	$287,104	$0.960		
9,770	0.033	30,021	0.100	$307,003	$1.029		
11,698	0.038	32,123	0.104	$342,119	$1.113		
12,864	0.040	29,163	0.090	$344,082	$1.151		
11,579	0.037	29,088	0.093	$332,083	$1.065		
2,415	0.040	6,117	0.102	$60,807	$1.014		
2,001	0.033	6,150	0.103	$63,044	$1.051		
2,396	0.037	6,918	0.106	$70,072	$1.075		
2,471	0.041	5,973	0.100	$70,476	$1.175		
2,372	0.038	5,959	0.096	$68,181	$1.102		
14,205	0.040	37,024	0.103	$347,911	$0.969		
11,771	0.033	36,171	0.101	$370,847	$1.033		
14,094	0.038	39,041	0.105	$412,191	$1.106		
14,535	0.040	35,106	0.098	$414,550	$1.155		
13,930	0.037	35,046	0.094	$401,064	$1.072		
5,467	0.053	18,715	0.180	$193,393	$1.865		
6,281	0.034	21,396	0.114	$233,294	$1.245		
5,676	0.030	18,641	0.099	$211,640	$1.129		
5,733	0.031	18,319	0.098	$208,649	$1.114		
117	0.002	401	0.006	$4,147	$0.062		
135	0.040	458	0.137	$5,003	$1.496		
122	0.036	400	0.120	$4,538	$1.357		
122	0.036	391	0.116	$4,475	$1.331		
5,585	0.053	19,117	0.112	$197,540	$1.155		
6,416	0.034	21,854	0.115	$238,297	$1.249		
5,798	0.030	19,041	0.100	$216,178	$1.133		
5,855	0.031	18,710	0.098	$213,124	$1.117		

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COMMUNITY COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTR (MEGA WATT-HRS)	3.
GADSDEN ST TECH COLLEGE						
E & G	1981-82					
	1982-83					
	1983-84	59,667	2,771	0.046	346.9	
	1984-85	58,667	4,062	0.069	349.2	
	1985-86	59,667	3,421	0.057	433.0	
AUXILIARY & OTHER	1981-82					
	1982-83					
	1983-84	0	58		10.4	
	1984-85	0	87		7.5	
	1985-86	8,534	73	0.021	9.3	
TOTAL	1981-82					
	1982-83					
	1983-84	59,667	2,829	0.047	345.9	
	1984-85	58,667	4,149	0.071	356.7	
	1985-86	68,201	3,495	0.055	442.3	
ALL DIVISIONS						
TOTALS	1981-82	359,022	22,819	0.064	4,161	
	1982-83	530,086	37,932	0.072	5,084	
	1983-84	623,003	43,214	0.069	6,373	
	1984-85	608,429	37,993	0.062	6,313	
	1985-86	628,171	37,446	0.060	6,244	

ICAL ENERGY (MMBTU- X14 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
1,184	0.020	3,935	0.066	$47,762	$0.800		
1,192	0.020	5,254	0.090	$51,996	$0.886		
1,478	0.025	4,899	0.082	$55,565	$0.931		
43		121		$2,032			
26		113		$1,115			
32	0.009	105	0.030	$1,191	$0.337		
1,247	0.021	4,076	0.068	$49,794	$0.835		
1,218	0.021	5,367	0.091	$53,111	$0.905		
1,510	0.024	5,005	0.079	$56,756	$0.898		
14,285	0.040	37,024	0.103	$47,911	$0.969	3,530	1,989
17,356	0.033	55,288	0.104	$68,387	$1.072	3,330	1,521
21,757	0.033	64,971	0.104	$90,282	$1.124	3,726	1,804
21,552	0.035	59,545	0.098	$83,847	$1.124	3,102	1,451
21,315	0.034	58,761	0.094	$70,944	$1.068	3,068	1,734

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
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COMMUNITY COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTRICA (MEGA WATT-HRS)	(MI 3.41
LAWSON ST COM COLLEGE						
ACADEMIC DIVISION						
E & G	1981-82					
	1982-83	170,414	11,243	0.066	2,547.0	
	1983-84	170,414	9,660	0.057	1,475.9	
	1984-85	170,414	8,471	0.050	1,982.8	
	1985-86	170,414	8,089	0.047	1,992.4	
AUXILIARY & OTHER	1981-82					
	1982-83	6,750	0	0.000	0.0	
	1983-84	6,750	0	0.000	0.0	
	1984-85	6,750	0	0.000	0.0	
	1985-86	6,750	0	0.000	0.0	
TOTAL	1981-82					
	1982-83	177,164	11,243	0.063	2,547.0	
	1983-84	177,164	9,660	0.055	1,475.9	
	1984-85	177,164	8,471	0.048	1,982.8	
	1985-86	177,164	8,089	0.046	1,992.4	
TECHNICAL DIVISION						
E & G	1981-82					
	1982-83	50,272	5,593	0.111	655.8	
	1983-84	86,513	375	0.004	644.5	
	1984-85	86,513	6,394	0.074	873.0	
	1985-86	96,637	8,555	0.089	835.9	
AUXILIARY & OTHER	1981-82					
	1982-83	9,739	0	0.000	0.0	
	1983-84	9,739	0	0.000	0.0	
	1984-85	9,739	0	0.000	0.0	
	1985-86	0	0		0.0	
TOTAL	1981-82					
	1982-83	60,011	5,593	0.093	655.8	
	1983-84	96,252	375	0.004	644.5	
	1984-85	96,252	6,394	0.066	873.0	
	1985-86	96,637	8,555	0.089	835.9	

L ENERGY BTU- X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
,695	0.051	19,930	0.117	$212,989	$1.250		
,039	0.030	14,699	0.086	$111,963	$1.031		
,769	0.040	15,240	0.089	$258,871	$1.519		
,002	0.040	14,091	0.087	$229,111	$1.344		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
,695	0.049	19,930	0.113	$212,989	$1.202		
,039	0.028	14,699	0.083	$111,963	$1.761		
,769	0.038	15,240	0.086	$258,871	$1.461		
,002	0.038	14,091	0.084	$229,111	$1.293		
,239	0.045	7,032	0.156	$70,726	$1.407		
,200	0.025	2,575	0.030	$55,966	$0.647		
,980	0.034	9,374	0.100	$110,724	$1.200		
,054	0.030	11,409	0.110	$123,524	$1.270		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0	0.000	0	0.000	$0	$0.000		
0		0		$0			
,239	0.037	7,032	0.131	$70,726	$1.179		
,200	0.023	2,575	0.027	$55,966	$0.581		
,980	0.031	9,374	0.097	$110,724	$1.150		
,054	0.030	11,409	0.110	$123,524	$1.270		

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
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COMMUNITY COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTRI (MEGA WATT-HRS)	I 3.4
BOTH DIVISIONS						
TOTALS	1981-82					
	1982-83	237,175	16,836	0.071	3,292.8	
	1983-84	273,416	10,035	0.037	2,120.4	
	1984-85	273,416	14,865	0.054	2,855.8	
	1985-86	273,001	16,644	0.061	2,828.3	

CAL ENERGY (MMBTU- (14 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
						2,977	1,796
10,934	0.046	27,770	0.117	$283,715	$1.196	3,296	1,860
7,239	0.026	17,274	0.063	$367,929	$1.346	2,708	1,909
9,750	0.036	24,615	0.090	$369,595	$1.352	2,708	1,909
9,656	0.035	24,300	0.096	$352,635	$1.288	2,560	1,948

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
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INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTR (MEGA WATT-HRS)	3.
SHELTON ST COM COLLEGE						
ACADEMIC DIVISION						
E & G	1981-82	97,320	987	0.010	1,384.6	
	1982-83	97,320	981	0.010	1,182.1	
	1983-84	97,320	1,180	0.012	708.4	
	1984-85	98,180	1,696	0.017	965.0	
	1985-86	98,180	1,648	0.017	1,192.6	
AUXILIARY & OTHER	1981-82	0	110		145.0	
	1982-83	0	109		131.3	
	1983-84	0	132		435.7	
	1984-85	1,100	134	0.122	73.7	
	1985-86	1,100	180	0.164	131.4	
TOTAL	1981-82	97,320	1,097	0.011	1,449.6	
	1982-83	97,320	1,090	0.011	1,313.4	
	1983-84	97,320	1,312	0.013	1,144.1	
	1984-85	99,280	1,830	0.018	1,039.5	
	1985-86	99,280	1,828	0.018	1,324.0	
TECHNICAL DIVISION						
E & G	1981-82	83,897	6,358	0.076	992.2	
	1982-83	83,897	6,673	0.080	1,124.7	
	1983-84	95,897	6,241	0.065	984.7	
	1984-85	95,897	6,382	0.067	1,187.4	
	1985-86	85,388	6,327	0.074	1,343.8	
AUXILIARY & OTHER	1981-82	20,751	644	0.031	110.3	
	1982-83	20,751	736	0.035	125.0	
	1983-84	20,751	693	0.033	100.5	
	1984-85	20,751	709	0.034	96.3	
	1985-86	18,663	703	0.038	113.6	
TOTAL	1981-82	104,648	7,002	0.067	1,102.5	
	1982-83	104,648	7,409	0.071	1,249.7	
	1983-84	116,648	6,934	0.059	1,085.2	
	1984-85	116,648	7,091	0.061	1,283.7	
	1985-86	103,963	7,030	0.068	1,457.4	

ICAL ENERGY (MMBTU-414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR
4,454	0.046	5,441	0.056	$95,722	$0.984	
4,036	0.041	5,017	0.052	$86,487	$0.889	
2,418	0.025	3,598	0.037	$76,935	$0.791	
3,297	0.034	4,993	0.051	$93,530	$0.953	
4,072	0.041	5,720	0.058	$94,723	$0.965	
495		605		$11,625		
448		557		$9,609		
1,487		1,619		$8,519		
252	0.229	386	0.351	$7,729	$7.026	
448	0.408	628	0.571	$10,519	$9.563	
4,949	0.051	6,046	0.062	$107,347	$1.103	
4,484	0.046	5,574	0.057	$96,096	$0.987	
3,906	0.040	5,218	0.054	$85,454	$0.878	
3,549	0.036	5,379	0.054	$101,259	$1.020	
4,520	0.046	6,348	0.064	$103,242	$1.040	
3,387	0.040	9,745	0.116	$96,731	$1.153	
3,840	0.046	10,513	0.125	$122,668	$1.462	
3,089	0.032	9,330	0.097	$119,246	$1.243	
4,034	0.042	10,436	0.109	$143,287	$1.493	
4,588	0.054	10,915	0.128	$144,199	$1.698	
377	0.018	1,021	0.049	$10,726	$0.517	
427	0.021	1,163	0.056	$13,631	$0.657	
343	0.017	1,036	0.050	$13,251	$0.639	
329	0.016	1,038	0.050	$15,808	$0.761	
388	0.021	1,091	0.058	$15,989	$0.852	
3,764	0.036	10,766	0.103	$107,457	$1.027	
4,266	0.041	11,675	0.112	$136,299	$1.302	
3,432	0.029	10,366	0.089	$132,497	$1.134	
4,383	0.038	11,474	0.098	$159,007	$1.363	
4,976	0.048	12,006	0.115	$160,108	$1.540	

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INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	E ENECA (WATT-HRS)
BOTH DIVISIONS					
TOTALS	1981-82	201,960	8,099	0.040	2,552.1
	1982-83	201,960	8,499	0.042	2,563.1
	1983-84	213,960	8,246	0.039	2,149.3
	1984-85	215,920	8,921	0.041	2,323.2
	1985-86	203,243	8,850	0.044	2,781.4

LECTRICAL ENERGY (MMBTU- 3.414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
8,713	0.043	16,812	0.083	$214,804	$1.064	2,807	1,941
8,750	0.043	17,249	0.085	$232,395	$1.151	2,977	1,796
7,338	0.036	15,584	0.077	$217,951	$1.079	3,296	1,860
7,931	0.037	16,852	0.078	$260,266	$1.205	2,708	1,909
9,496	0.047	18,354	0.090	$265,350	$1.306	2,568	1,948

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
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COMMUNITY COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	EL (MEGA WATT-HRS)
WALLACE ST C C - DOTHAN					
ACADEMIC DIVISION					
E & G	1981-82	164,670	5,453	0.033	1,752.0
	1982-83	164,670	5,434	0.033	1,681.8
	1983-84	164,670	6,613	0.040	1,816.9
	1984-85	164,670	5,969	0.036	2,136.2
	1985-86	174,098	4,866	0.028	1,606.9
AUXILIARY & OTHER	1981-82	21,989	0	0.000	0.0
	1982-83	21,989	0	0.000	0.0
	1983-84	21,989	0	0.000	0.0
	1984-85	21,989	0	0.000	0.0
	1985-86	30,388	0	0.000	0.0
TOTAL	1981-82	186,659	5,453	0.029	1,752.0
	1982-83	186,659	5,434	0.029	1,681.8
	1983-84	186,659	6,613	0.035	1,816.9
	1984-85	186,659	5,969	0.032	2,136.2
	1985-86	204,486	4,866	0.024	1,606.9
TECHNICAL DIVISION					
E & G	1981-82	186,528	5,453	0.029	1,752.0
	1982-83	185,832	5,434	0.029	1,681.8
	1983-84	185,832	4,469	0.024	1,301.1
	1984-85	185,832	3,979	0.021	2,089.4
	1985-86	137,533	4,813	0.035	2,212.7
AUXILIARY & OTHER	1981-82	2,646	0	0.000	0.0
	1982-83	2,646	0	0.000	0.0
	1983-84	2,646	0	0.000	0.0
	1984-85	2,646	0	0.000	0.0
	1985-86	0	0		0.0
TOTAL	1981-82	189,174	5,453	0.029	1,752.0
	1982-83	188,478	5,434	0.029	1,681.8
	1983-84	188,478	4,469	0.024	1,301.1
	1984-85	188,478	3,979	0.021	2,089.4
	1985-86	137,533	4,813	0.035	2,212.7

ECTRICAL ENERGY (MMBTU- 3.414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR
5,981	0.036	11,434	0.069	$110,625	$0.672	
5,742	0.035	11,176	0.068	$107,633	$0.836	
6,203	0.038	12,016	0.078	$160,353	$0.974	
7,293	0.044	13,262	0.081	$179,524	$1.090	
5,486	0.032	10,352	0.059	$135,038	$0.780	
0	0.000	0	0.000	$0	$0.000	
0	0.000	0	0.000	$0	$0.000	
0	0.000	0	0.000	$0	$0.000	
0	0.000	0	0.000	$0	$0.000	
0	0.000	0	0.000		$0.000	
5,981	0.032	11,434	0.061	$110,625	$0.593	
5,742	0.031	11,176	0.060	$107,633	$0.737	
6,203	0.033	12,016	0.069	$160,353	$0.859	
7,293	0.039	13,262	0.071	$179,524	$0.962	
5,486	0.027	10,352	0.051	$135,038	$0.664	
5,981	0.032	11,434	0.061	$115,235	$0.618	
5,742	0.031	11,176	0.060	$143,618	$0.773	
4,715	0.025	9,184	0.049	$125,173	$0.674	
7,133	0.038	11,112	0.060	$126,519	$0.681	
7,554	0.055	12,367	0.090	$181,296	$1.318	
0	0.000	0	0.000	$0	$0.000	
0	0.000	0	0.000	$0	$0.000	
0	0.000	0	0.000	$0	$0.000	
0	0.000	0	0.000	$0	$0.000	
0		0				
5,981	0.032	11,434	0.060	$115,235	$0.609	
5,742	0.030	11,176	0.059	$143,618	$0.762	
4,715	0.025	9,184	0.049	$125,173	$0.664	
7,133	0.038	11,112	0.059	$126,519	$0.671	
7,554	0.055	12,367	0.090	$181,296	$1.318	

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INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELEC (MEGA WATT-HRS)
BOTH DIVISIONS					
TOTALS	1981-82	375,033	10,906	0.029	3,504.0
	1982-83	375,137	10,868	0.029	3,363.6
	1983-84	375,137	11,082	0.030	3,198.0
	1984-85	375,137	9,948	0.027	4,225.6
	1985-86	342,019	9,679	0.028	3,819.6

TRICAL ENERGY (MMBTU- 3.414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
11,963	0.032	22,069	0.061	$225,860	$0.601	2,272	2,324
11,483	0.031	22,351	0.060	$281,251	$0.750	2,166	2,252
10,910	0.029	22,000	0.059	$285,526	$0.761	2,460	2,382
14,426	0.038	24,374	0.065	$306,043	$0.816	2,010	2,441
13,040	0.038	22,719	0.066	$317,134	$0.927	1,847	2,532

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INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELE (MEGA WATT-HRS)
WALLACE ST C C - HANCEVL					
BOTH DIVISIONS					
E & G	1981-82	293,600	14,048	0.048	2,138.6
	1982-83	179,278	3,775	0.021	2,136.4
	1983-84	221,273	11,007	0.050	2,259.1
	1984-85	221,274	10,478	0.047	2,478.9
	1985-86	220,229	9,669	0.044	2,731.5
AUXILIARY & OTHER	1981-82	9,819	175	0.018	26.2
	1982-83	2,560	0	0.000	41.8
	1983-84	2,560	1,103	0.431	75.6
	1984-85	2,560	945	0.369	92.3
	1985-86	2,560	1,064	0.416	79.6
TOTAL	1981-82	303,419	14,223	0.047	2,164.8
	1982-83	181,838	3,775	0.021	2,177.4
	1983-84	223,833	12,910	0.058	2,334.7
	1984-85	223,834	11,415	0.051	2,571.2
	1985-86	222,789	10,733	0.048	2,811.1

TRICAL ENERGY (MMBTU- 3.414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
7,301	0.025	21,349	0.073	$145,546	$0.496		
7,294	0.041	11,069	0.062	$167,422	$0.934		
7,713	0.035	19,520	0.088	$218,969	$0.990		
8,463	0.038	18,933	0.086	$232,081	$1.048		
9,325	0.042	18,994	0.086	$234,292	$1.155		
89	0.009	264	0.027	$1,743	$0.178		
140	0.055	140	0.055	$2,529	$0.988		
258	0.101	1,361	0.532	$11,084	$4.330		
315	0.123	1,260	0.492	$11,434	$4.466		
272	0.106	1,334	0.522	$11,869	$4.636		
7,391	0.024	21,614	0.071	$147,289	$0.485	2,887	1,941
7,434	0.041	11,209	0.062	$169,951	$0.935	2,977	1,796
7,971	0.036	20,081	0.093	$230,855	$1.020	3,296	1,868
8,778	0.039	20,193	0.090	$243,435	$1.088	2,708	1,909
9,597	0.043	20,330	0.091	$266,161	$1.195	2,568	1,948

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INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECTR (MEGA WATT-HRS)	E
WALLACE ST C C - SELMA						
ACADEMIC DIVISION						
E & G	1981-82	205,956	3,492	0.017	1,007.7	
	1982-83	115,526	3,434	0.030	880.2	
	1983-84	115,526	2,582	0.022	878.1	
	1984-85	115,526	3,049	0.026	1,050.2	
	1985-86	129,317	2,179	0.017	1,060.5	
AUXILIARY & OTHER	1981-82	5,049	262	0.052	75.9	
	1982-83	5,048	260	0.052	66.9	
	1983-84	5,048	191	0.038	66.1	
	1984-85	5,048	229	0.045	70.0	
	1985-86	7,368	148	0.022	80.6	
TOTAL	1981-82	211,005	3,754	0.018	1,083.6	
	1982-83	120,574	3,694	0.031	955.1	
	1983-84	120,574	2,773	0.023	944.2	
	1984-85	120,574	3,278	0.027	1,120.2	
	1985-86	136,685	2,347	0.017	1,141.1	
TECHNICAL DIVISION						
E & G	1981-82	86,159	9,554	0.111	677.1	
	1982-83	86,159	6,037	0.070	644.7	
	1983-84	66,788	4,546	0.068	580.7	
	1984-85	66,788	4,862	0.073	651.0	
	1985-86	72,368	4,567	0.063	721.1	
AUXILIARY & OTHER	1981-82	5,040	1,554	0.308	118.2	
	1982-83	5,040	983	0.195	105.0	
	1983-84	7,500	739	0.099	95.0	
	1984-85	7,500	792	0.106	106.0	
	1985-86	8,520	722	0.207	97.6	
TOTAL	1981-82	91,199	11,108	0.122	787.3	
	1982-83	91,199	7,020	0.077	749.7	
	1983-84	74,288	5,285	0.071	684.5	
	1984-85	74,288	5,654	0.076	757.0	
	1985-86	74,888	5,289	0.071	818.7	

ICAL ENERGY (MMBTU- 414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR
3,440	0.017	6,932	0.034	$92,639	$0.458	
3,032	0.026	6,466	0.056	$87,298	$0.756	
2,998	0.026	5,580	0.048	$80,416	$0.765	
3,585	0.031	6,634	0.057	$102,817	$0.890	
3,621	0.020	5,800	0.045	$100,904	$0.780	
259	0.051	521	0.103	$6,971	$1.381	
228	0.045	488	0.097	$6,571	$1.302	
226	0.045	417	0.083	$6,656	$1.319	
239	0.047	468	0.093	$7,738	$1.533	
275	0.036	443	0.059	$7,595	$1.004	
3,699	0.018	7,453	0.035	$99,618	$0.472	
3,261	0.027	6,955	0.058	$93,849	$0.779	
3,223	0.027	5,996	0.050	$95,072	$0.788	
3,824	0.032	7,102	0.059	$110,555	$0.917	
3,896	0.020	4,243	0.046	$100,499	$0.793	
2,312	0.027	11,866	0.138	$83,893	$0.974	
2,201	0.026	8,238	0.096	$87,889	$1.020	
2,010	0.030	6,356	0.098	$84,778	$1.269	
2,223	0.033	7,085	0.106	$91,540	$1.371	
2,462	0.034	7,029	0.097	$91,526	$1.265	
574	0.073	1,930	0.383	$13,658	$2.710	
350	0.071	1,341	0.266	$14,307	$2.839	
327	0.044	1,066	0.142	$13,801	$1.840	
362	0.048	1,154	0.154	$14,808	$1.974	
333	0.132	1,055	0.419	$12,877	$5.110	
2,688	0.029	13,796	0.151	$97,551	$1.070	
2,559	0.028	9,579	0.105	$102,196	$1.121	
2,337	0.031	7,622	0.103	$98,579	$1.327	
2,584	0.035	8,238	0.111	$106,348	$1.432	
2,795	0.037	8,084	0.108	$104,403	$1.394	

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INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	E (MEGA WATT-HRS)
BOTH DIVISIONS					
TOTALS	1981-82	382,294	14,862	0.049	1,870.9
	1982-83	211,773	10,714	0.051	1,704.8
	1983-84	194,862	8,038	0.041	1,629.7
	1984-85	194,862	8,932	0.046	1,877.2
	1985-86	211,773	7,636	0.036	1,959.0

ECTRICAL ENERGY (MMBTU-3.414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
6,387	0.021	21,249	0.070	$197,161	$0.652	2,152	2,439
5,820	0.027	16,534	0.078	$196,865	$0.926	2,148	2,193
3,560	0.029	13,618	0.070	$193,651	$0.994	2,412	2,239
4,409	0.033	15,041	0.079	$216,988	$1.113	1,918	2,407
4,691	0.032	14,327	0.068	$212,982	$1.045	2,654	2,398

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
AS OF JUNE 30, 1986

COMMUNITY COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	EL (MEGA WATT-HRS)
TOTALS - ACADEMIC DIV					
E & G	1981-82	1,356,520	57,643	0.042	13,982
	1982-83	1,322,174	60,786	0.046	15,963
	1983-84	1,278,545	69,489	0.054	15,547
	1984-85	1,271,006	60,916	0.048	17,465
	1985-86	1,421,755	58,072	0.041	16,200
AUXILIARY & OTHER	1981-82	112,347	4,249	0.038	934
	1982-83	111,837	4,518	0.040	825
	1983-84	239,867	5,948	0.025	1,279
	1984-85	234,993	4,810	0.020	960
	1985-86	132,545	4,999	0.038	2,155
TOTAL	1981-82	1,468,867	61,892	0.042	14,937
	1982-83	1,434,011	65,224	0.045	16,788
	1983-84	1,517,612	75,357	0.050	16,826
	1984-85	1,505,999	65,726	0.044	18,425
	1985-86	1,554,300	63,071	0.041	18,435
TOTALS - TECHNICAL DIV					
E & G	1981-82	514,020	33,199	0.065	6,038
	1982-83	667,289	47,243	0.071	8,234
	1983-84	795,941	44,414	0.056	8,407
	1984-85	794,941	49,262	0.062	9,801
	1985-86	779,486	50,007	0.064	8,969
AUXILIARY & OTHER	1981-82	33,082	2,198	0.066	221
	1982-83	110,112	2,003	0.018	264
	1983-84	74,929	1,813	0.024	254
	1984-85	74,929	1,866	0.025	246
	1985-86	49,262	1,767	0.036	831
TOTAL	1981-82	547,102	35,397	0.065	6,258
	1982-83	777,401	49,246	0.063	8,498
	1983-84	870,870	46,227	0.053	8,661
	1984-85	869,870	51,128	0.059	9,246
	1985-86	828,668	51,775	0.062	9,799

ECTRICAL ENERGY (MMBTU- 3.414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR
47,736	0.035	105,379	0.078	1,017,307	$0.750	
54,497	0.041	115,203	0.087	1,323,359	$1.001	
53,077	0.042	122,436	0.096	1,547,536	$1.210	
59,627	0.047	120,543	0.095	1,564,858	$1.231	
55,579	0.039	113,451	0.080	1,530,965	$1.077	
9,258	0.029	7,507	0.067	81,146	$0.722	
2,818	0.025	7,336	0.066	81,753	$0.731	
4,367	0.018	10,315	0.043	96,333	$0.403	
3,277	0.014	8,087	0.034	97,377	$0.414	
7,356	0.056	12,855	0.093	98,164	$0.741	
50,994	0.035	112,886	0.077	1,098,453	$0.748	
57,314	0.040	122,538	0.085	1,405,112	$0.980	
57,444	0.038	132,801	0.088	1,643,869	$1.083	
62,903	0.042	128,629	0.085	1,662,235	$1.104	
62,935	0.040	126,086	0.081	1,629,129	$1.040	
20,612	0.040	53,811	0.105	502,656	$0.978	
28,110	0.042	75,353	0.113	835,615	$1.252	
28,701	0.036	73,115	0.092	882,797	$1.109	
30,729	0.039	79,991	0.101	934,901	$1.176	
30,620	0.039	80,627	0.103	1,001,203	$1.285	
753	0.023	2,951	0.089	24,384	$0.737	
903	0.008	2,906	0.026	32,085	$0.291	
868	0.012	2,681	0.036	34,087	$0.455	
838	0.011	2,704	0.036	36,261	$0.484	
2,835	0.058	4,602	0.093	34,452	$0.699	
21,365	0.039	56,762	0.104	527,040	$0.963	
29,012	0.037	78,258	0.101	867,700	$1.116	
29,569	0.034	75,796	0.087	916,884	$1.053	
31,367	0.036	82,695	0.095	971,162	$1.116	
33,455	0.040	85,230	0.103	1,035,655	$1.250	

UTILITIES USAGE AND COST SUMMARY - ALABAMA PUBLIC HIGHER EDUCATION
AS OF JUNE 30, 1986

COMMUNITY COLLEGES

INSTITUTION & FACILITY CATEGORY	YEAR	GROSS AREA (GSF)	HEATING FUEL/STEAM (MMBTU)	(MMBTU/GSF)	ELECT (MEGA WATT-HRS)
TOTALS - CCM COLLEGES					
E & G	1981-82	1,870,340	90,842	0.049	20,020
	1982-83	1,909,463	107,949	0.054	24,196
	1983-84	2,074,486	113,823	0.055	23,934
	1984-85	2,065,947	110,178	0.053	26,466
	1985-86	2,201,161	100,079	0.049	25,249
AUXILIARY & OTHER	1981-82	143,429	6,447	0.044	1,175
	1982-83	221,949	6,521	0.029	1,090
	1983-84	313,996	7,761	0.025	1,533
	1984-85	389,922	6,676	0.022	1,205
	1985-86	181,807	6,766	0.037	2,985
TOTAL	1981-82	2,013,769	97,289	0.048	21,195
	1982-83	2,211,412	114,470	0.052	25,286
	1983-84	2,388,482	121,584	0.051	25,467
	1984-85	2,373,869	116,854	0.049	27,672
	1985-86	2,382,968	114,846	0.048	28,234

UTSUMSCC - 6/11/87

TICAL ENERGY (MMBTU-.414 X MWH)	(MMBTU/GSF)	TOTAL ENERGY (MMBTU)	(MMBTU/GSF)	COST OF UTILITIES ($)	($/GSF)	HEATING DEGREE-DAYS PER YEAR	COOLING DEGREE-DAYS PER YEAR
60,340	0.037	159,190	0.085	1,519,963	$0.813		
82,686	0.042	190,555	0.096	2,158,974	$1.085		
81,770	0.039	195,691	0.094	2,430,333	$1.172		
90,356	0.044	200,534	0.097	2,499,759	$1.210		
84,199	0.039	194,270	0.088	2,532,168	$1.150		
4,011	0.020	10,450	0.072	105,530	$0.726		
3,720	0.017	10,241	0.046	113,830	$0.513		
5,235	0.017	12,996	0.041	130,420	$0.415		
4,115	0.013	10,791	0.035	133,630	$0.431		
10,192	0.056	16,950	0.093	132,616	$0.729		
72,359	0.036	169,640	0.084	1,635,493	$0.806	2,911	2,184
86,326	0.039	200,796	0.091	2,272,812	$1.020	2,929	1,787
87,013	0.036	200,897	0.087	2,360,755	$1.072	3,292	1,947
94,471	0.040	211,325	0.089	2,633,397	$1.108	2,752	1,915
96,391	0.040	211,237	0.089	2,644,784	$1.110	2,656	1,980

APPENDIX

Quarterly Utilities Report Form

INSTITUTION: _____ COMPONENT: _____

UTILITY	UNIT / COST	1st QTR - 7/1-9/30		2nd QTR - 10/1-12/3	
		E&G SPACE	TOTAL	E&G SPACE	TOTAL
ELECTRICITY	KWH				
	$				
FUEL OIL	GAL				
	$				
NATURAL GAS	MCF				
	$				
COAL	TONS				
	$				
PURCHASED STEAM	M LBS				
	$				
PROPANE	LBS				
	$				
WATER	M GAL				
	$				
SEWAGE DISPOSAL					
	$				
SOLID WASTE DISPOSAL					
	$				
TOTAL	$				

9/85

	YEAR:	QUARTERLY UTILITIES REPORT					
31	3rd QTR - 1/1-3/31		4th QTR - 4/1-6/30		TOTAL FOR YEAR	
	E&G SPACE	TOTAL	E&G SPACE	TOTAL	E&G SPACE	TOTAL

Preliminary Report

"Study of Relationship between Energy Usage
and Heating Degree-Days and Cooling-Degree Days"

Study of Relationship between Energy Usage and Heating Degree-Days and Cooling-Degree Days

Preliminary Report

Purpose of Study:

Weather, especially ambient temperature, affects the consumption of fuel and electrical energy. This is most apparent where the consumer has relatively little industrial activity and uses a large part of the energy consumed for heating and cooling buildings. The questions we proposed to answer were: (1) Are there measurable and predictable relationships between temperature and energy consumption for the Alabama public institutions of higher education? and (2) If so, how can they be used to adjust consumption data so that increases and decreases in usage are truly comparable from year to year?

The study had three elements: (1) to determine if linear or other mathematical relationships with acceptable correlation could be established between (a) heating fuel (and purchased steam) consumption and heating degree-days and (b) electrical energy consumption and cooling degree-days. (2) To develop a procedure for adjusting energy consumption data from year to year to eliminate the variations caused by temperature. (3) To ascertain the results of applying the procedure to energy consumption data for the Alabama public institutions of higher education.

Hypothesis:

(1) Domestic, and to a high degree institutional use of fuel in or for buildings is largely for comfort heating. Uses of electrical energy include cooling, ventilating, lighting, and a variety of other, relatively minor, uses.

(2) Use of heat energy in buildings generally has a linear relationship to heating degree-days (the product of the number of days times the number of degrees Fahrenheit the mean outdoor temperature is below 65 degrees Fahrenheit). The heat energy value(s) for periods when the heating degree-day value is zero (y-intercept of graph) reflects such uses as domestic hot water heating, and, for central plant systems, heat losses in distributing steam or hot water. Higher consumption rates (steeper graph slopes) usually reflect less efficient generation or building heating systems and higher building losses.

(3) For most buildings the relation of electrical energy consumption to cooling degree-days is less obvious than that of heat energy to heating degree-days, because the proportion of electrical energy used for cooling is much lower. However, in the southern U. S., cooling equipment imposes a significant electrical load, and, in many instances, the other uses of electrical energy are more or less constant regardless of the outdoor temperature. Ventilation is essentially the same summer and winter,

lighting varies relatively little (although the period for full lighting may increase in winter), and other uses are about the same for as long as the building is fully occupied. (If an institution operates at substantially lower level during the summer months the usage of electrical energy during this period will be affected.) Therefore the same type of relationship should exist between electrical energy consumption and cooling degree-days as between fuel and heating degree-days. However, the energy value at zero cooling degree days represents all electrical energy use other than cooling, and will be proportionately much higher. Also, the consumption rate increase per cooling degree-day will be proportionately lower. If energy values are expressed as mega watt-hours per gross square foot the rate increase per CDD reflects efficiency of cooling equipment and building envelope, operating practices, etc.

Procedure:

(1) Heating fuel and steam usage data for each institution for each quarter (3 months) and electrical energy usage data for each institution for each quarter were obtained from the quarterly utilities reports furnished by each institution. (Quarterly increments were used because data by quarter were conveniently available and because it was thought that these groupings demonstrated seasonal swings adequately.)

(2) Gross building areas for each institution were obtained from biennial facilities inventories furnished by each institution, updated where appropriate from "Space Data Reports" from the institutions.

(3) Heating and cooling degree-days totals for each corresponding period were obtained from the National Oceanographic and Atmospheric Administration reports of climatological data from the weather station closest to each institution.

(4) Weighted mean values for HDD and CDD for all institutions of a class (e.g., senior, community, junior, and technical) were calculated on the basis of gross square feet.

(5) Linear relationships between HDD and CDD per calendar day (independent variable) and million BTU and megawatt hours per gross square foot of building floor area (dependent variable) were calculated using linear regression techniques, for each class of institution, for each quarter in 1984, 1985, and 1986.

(6) Graphs were plotted of energy consumption per GSF versus HDD and CDD per (calendar) day for each class of institutions for each quarter of 1984, 1985, and 1986.

(7) In order to examine the impact on electrical energy of the summer shutdown of many institutions (especially the junior colleges) data were analyzed for 3 quarters of each year (January-March, April-June, and October-December), omitting the July-September period.

Findings:

(1) Fuel and steam consumption versus Heating Degree-Days: In all instances correlation was very high ("R" values of 0.9 and higher). Y-intercepts (HDD = zero) for community, junior, and technical colleges were less than 0.003 MMBtu (3,000 Btu) per day. The Y-intercept for the senior institutions was 0.012 MMBtu, reflecting uses other than space heating (labs, etc.) and losses from underground steam and hot water distribution systems kept in operation during non-heating periods. Analysis of each institution should identify the institutions with large distribution losses. Rates of increase of consumption per HDD/day (slope of graph) were as follows:

Senior Institutions	0.00103 MMBtu/GSF
Junior Colleges	0.00107 MMBtu/GSF
Community Colleges	0.00148 MMBtu/GSF
Technical Colleges	0.00162 MMBtu/GSF

This suggests that the technical colleges and the technical divisions of community colleges are less efficient to heat in cold weather because of the design and use of their buildings.

(2) Electrical energy consumption versus cooling degree-days: Correlation of the relationships (energy to cooling degree-days) was generally high, though not as high as those for heating fuel and heating degree-days. This was especially true for the junior colleges. Examination of the plotted values shows slope reversals between summer and fall, and between fall and spring values. This phenomenon could indicate problems in cooling system operation during the "swing" seasons. Y-intercepts were relatively much higher than those for heating fuels, as follows:

Senior Institutions	0.00394 MWH/GSF (0.0135 MMBtu/GSF)
Junior Colleges	0.00242 MWH/GSF (0.00826 MMBtu/GSF)
Community Colleges	0.00218 MWH/GSF (0.00714 MMBtu/GSF)
Technical Colleges	0.00203 MWH/GSF (0.00693 MMBtu/GSF)

This was expected, because electrical energy usage for lighting, air-handling, and non-environmental needs is as

high (or higher) in the colder months. Senior institutions showed a base of usage almost double that of the two year colleges, probably because of the more sophisticated buildings and high air-change rates of the research universities. Rates of increase of energy use per cooling degree-day were:

Senior Institutions	0.000111MWH/GSF (0.000379 MMBtu/GSF)
Junior Colleges	0.0000422 MWH/GSF (0.000144 MMBtu/GSF)
Community Colleges	0.000142 MWH/GSF (0.000485 MMBtu/GSF)
Technical Colleges	0.0000589 MWH/GSF (0.000201 MMBtu/GSF)

(3) Analysis of data for the 3-quarter period (excluding July-September) produced the expected results for the senior institutions, the community colleges, and the technical colleges: the Y-intercept was changed little, the slope flattened somewhat (from 25% for the senior institutions and community colleges to 50% for the technical colleges). The junior College data produced a nearly flat graph--actually a very slight negative slope. In all cases correlation was not as high as for the 12-months data.

Conclusions:

(1) Examination and comparison of energy usage in relation to heating degree-days and cooling degree-days will be very helpful in identifying the reasons for high and low energy usage on different campuses, and, therefore, in pointing the way to better energy conservation.

(2) The causes of the variations among the different types of institution discovered in this study should be clarified, in most instances, by analysis of the data from each campus.

(3) The relationship between energy use and heating degree-day and cooling degree-day values are sufficiently well-established to warrant the adjustment of energy use data on the basis of HDD/CDD to determine whether overall consumption is rising or declining from year to year. Attachment A summarizes "raw" and "adjusted" values for 1984, 1985, and 1986.

(4) The results of the analysis of the 3-quarters data are explained by the fact that, especially for the 2-year colleges, the levels of campus activity drop sharply around June 1 and resume around September 1. This tends to distort the data for the April-June quarter, when the month of June has high values for cooling degree-days but low levels of energy consumption for uses other than cooling. This problem should be correctable by using monthly data (instead

of quarterly) and excluding the months of low activity. A satisfactory approximation could be achieved by collecting data by quarter but offsetting the dates by one month (December-January-February, March-April-May, June-July-August, and September-October-November).

Recommendations:

That the ACHE staff:

(1) Analyze energy consumption versus Heating Degree-Day and Cooling Degree-Day data from individual institutions to aid in conservation.

(2) Shift the reporting period so that the summer quarter (June-July-August) more nearly approximates the summer recess of most institutions.

(3) Continue to use these techniques for adjusting overall consumption values to compensate for temperature variations.

ALABAMA COMMISSION ON HIGHER EDUCATION

Created by the Legislature in 1969, the Alabama Commission on Higher Education is charged with the responsibility of coordinating public higher education in Alabama.

The Commission is devoted to representing the citizens' higher-education interests to the Governor and Legislature, while at the same time objectively presenting the needs of the colleges and universities to the state.

In fulfilling its responsibility to approve new programs, review existing programs, formulate annual budget recommendations, coordinate student financial aid programs and chart long-range goals for higher education, the Commission matches the strengths of the 57 institutions with the state's available financial resources.

To ensure the decisions are made with an awareness of the educational and financial consequences, the Alabama Commission on Higher Education provides data; responds to inquires; conducts studies; and offers other assistance on higher education matters to the Governor, the Legislature, the institutions and the citizens of Alabama.

The Commission is composed of 12 members - 10 appointed by the governor, one by the lieutenant governor and one by the speaker of the House - who serve staggered nine-year terms.

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